SELLING WEAPONS, SELLING WAR

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Introduction¹

Why does war persist?

War was always madness, always immoral, always the cause of unspeakable suffering, economic waste and widespread destruction, and always a source of poverty, hate, barbarism and endless cycles of revenge and counter-revenge. It has always been a crime for soldiers to kill people, just as it is a crime for murderers in civil society to kill people. No flag has ever been wide enough to cover up atrocities.

But today, the development of all-destroying modern weapons has put war completely beyond the bounds of sanity and elementary humanity.

We know that war is madness, but it persists. We know that it threatens the future survival of our species, but it persists. We know that war is responsible for much of the suffering experienced by humanity, but it persists. Why?

Arms manufacturers make enormous profits, and they use this money to buy the votes of politicians and the propaganda of main-stream media. Numbed by this propaganda, citizens allow politicians to vote for obscenely large military budgets, and so the circular flow of money continues, a "Devil's Dynamo".

Militarism's hostages

Do our "Defense Departments" really defend us? Absolutely not! Their very title is a lie. The military-industrial complex sells itself by claiming to defend civilians. It justifies vast and crippling budgets by this claim; but it is a fraud. For the military-industrial complex, the only goal is money and power. Civilians like ourselves are just hostages. We are expendable. We are pawns in the power game, the money game. Nations possessing nuclear weapons threaten each other with "Mutually Assured Destruction", which has the very appropriate acronym MAD. What does this mean? Does it mean that civilians are being protected? Not at all. Instead they are threatened with complete destruction. Civilians here play the role of hostages in the power and money games of weapons manufacturers.

¹This book makes use of my previously published book chapters and articles, but a considerable amount of new material has also been added.

A vast river of money

According to the Stockholm International Peace Research Institute (SIPRI), the world spent 2.113 trillion US dollars on armaments in 2021. Of this almost incomprehensible amount of money, the United States spent almost half the total, \$801 billion.

Perhaps one reason for the disproportionately large US arms spending is that in the United States, the arms industry has been privatized, which is not the case in China or Russia. In the US, selling weapons and death is a business. It is a business, on which capitalist investors can make enormous profits, selling weapons and selling war.

Although this book concentrates on the United States, profit-driven weapons manufacturing exists in many other countries, for example in the United Kingdom, France and Italy. We can remember the French Exocet missiles, sold to Argentina, which sank British ships during the Falklands War.

Weapons manufacturers control the US government.

Giant weapons corporations like Lockheed Martin, Boeing and Raytheon sell almost exclusively to the US government, and it is therefore in their interest to control the government. In fact they do control it. The sums of money involved are so vast that arms manufacturers can tip the scales in elections and elect whom they please. Donors with enormously deep pockets are something that no politician can ignore.

Selling weapons and death abroad

The United States is by far the largest exporter of weapons in the world. The US sells weapons through NATO. It also sells weapons to dictatorships like Saudi Arabia, and these same weapons have produced a humanitarian catastrophes such as starvation in Yemen. Small arms exported to Africa deepen and prolong local conflicts.

The aggressive foreign policy of the United States is closely related to the profits made by arms manufacturers.

Fueling the fire in Ukraine

To ordinary people, the current war in Ukraine is a tragedy. United Nations Secretary General Antonio Guterres has wisely pleaded for a diplomatic solution to the conflict. But to arms manufacturers, the war is a bonanza, a huge chance for profit. The war must not end or their profits will end! Send more and more armaments! Throw more fuel on the fire!

More guns than people

There are more privately owned guns than people in the United States. The latest mass murder of young children at a school in Uvalde, Texas, has led to pleas for the reform of gun laws. However, the entire Republican Party opposes any reform, since that would damage the profits of the arms manufacturers who make a living by selling weapons and selling war.

Contents

1	$\mathbf{N}\mathbf{A}'$	TIONALISM	9
	1.1	From tribalism to nationalism	9
	1.2	Nationalism in Europe	0
	1.3	The two world wars	5
	1.4	Hitler's occultism: The influence of Dietrich Eckart	3
2	WH	IY GERMANY WAS ALLOWED TO REARM 3	3
	2.1	The British upper classes were protecting their privileges	3
	2.2	Unity Mitford and Hitler	3
	2.3	The British Union of Fascists	8
	2.4	Hitler and the Duke and Duchess of Windsor	0
	2.5	Hitler: A bulwark for the Establishment	3
3	\mathbf{TH}	E ARMS RACE 4	7
	3.1	The arms race prior to World War 1	7
	3.2	Krupp, Thyssen and Germany's steel industry	8
	3.3		9
	3.4		0
	3.5	Fritz Thyssen supports Hitler's rise to power	1
	3.6	Eisenhower's farewell address	8
	3.7	The nuclear arms race	0
	3.8	Global famine produced by nuclear war	6
	3.9	Dangers of nuclear power generation	8
	3.10	Military-industrial complexes today	3
	3.11	A culture of violence	1
4	TH	E THREATS AND COSTS OF WAR 9	3
	4.1	The training of soldiers	3
	4.2		4
	4.3	The direct and indirect costs of war	0
	4.4	Medical and psychological consequences; loss of life	0
	4.5	Effects of war on children 10	1
	4.6	Refugees	1

	4.7	Damage to infrastructure	102
	4.8	Ecological damage	103
	4.9	Links between poverty and war	103
	4.10	The threat of nuclear war	105
	4.11	Atoms for peace?	112
		Cancer threat from radioactive leaks at Hanford	124
	4.13	An accident waiting to happen	126
		Nuclear weapons are criminal! Every war is a crime!	129
5	TH	E CUBAN MISSILE CRISIS	139
	5.1	JFK Presidential Library's account	139
	5.2	Castro asks Khruschev for defensive help	142
	5.3	The world came close to thermonuclear destruction	142
	5.4	The Joint Chiefs of Staff advocate invading Cuba	143
6	TH	E VIETNAM WAR	153
	6.1	McNamara's Evil Lives On	153
	6.2	The Pentagon Papers	155
	6.3	Effects of Agent Orange	159
	6.4	Bombing of Cambodia and Laos	162
7	THE "WAR AGAINST TERROR"		
	7.1	Perpetual war	169
	7.2	Are we being driven like cattle?	170
	7.3	Media exaggeration of attacks in Paris	176
	7.4	Driven towards war by fake threats	177
	7.5	The role of the media	178
	7.6	Television as a part of our educational system	179
	7.7	The mass media have failed us	179
	7.8	Alternative media	180
	7.9	George Orwell, we need your voice today!	180
8		APONS INDUSTRIES CONTROL THE US GOVERNMENT	189
	8.1	A vast river of money	189
	8.2	Selling weapons and war abroad	192
	8.3	Militarism's hostages	192
	8.4	Searching for enemies	194
	8.5	Attacks on democracy in the United States	195
	8.6	Secrecy and democracy are incompatible	201
	8.7	Birgitta Jónsdóttir, democracy, and freedom of information	206
	8.8	Julian Assange, martyred for telling the truth	207
	8.9	The right-wing Supreme Court's unconstitutional rampage	212

CONTENTS

9	MASS SHOOTINGS AND MASSACRES	215
	9.1 More guns than people in the United States	215
	9.2 A few of the most notorious mass shootings	219
10	FUELING THE FIRE IN UKRAINE	233
	10.1 The war in Ukraine must stop now!	233
	10.2 Ukraine and the danger of nuclear war	236
11	THE WORLD AS IT IS, AND THE WORLD AS IT COULD BE	247
	11.1 We can build the world we choose $\ldots \ldots \ldots$	247
	11.2 A war-free world is possible	280

CONTENTS

Chapter 1 NATIONALISM

1.1 From tribalism to nationalism

70,000 years ago, our hunter-gatherer ancestors lived in tribes. Loyalty to the tribe was natural for our ancestors, as was collective work on tribal projects. Today, at the start of the 21st century, we live in nation-states to which we feel emotions of loyalty very similar to the tribal emotions of our ancestors.

The enlargement of the fundamental political and social unit has been made necessary and possible by improved transportation and communication, and by changes in the techniques of warfare. In Europe, for example, the introduction of canons in warfare made it possible to destroy castles, and thus the power of central monarchs was increased at the expense of feudal barons. At the same time, improved roads made merchants wish to trade freely over larger areas. Printing allowed larger groups of people to read the same books and newspapers, and thus to experience the same emotions. Therefore the size of the geographical unit over which it was possible to establish social and political cohesion became enlarged.

The tragedy of our present situation is that the same forces that made the nation-state replace the tribe as the fundamental political and social unit have continued to operate with constantly-increasing intensity. For this reason, the totally sovereign nation-state has become a dangerous anachronism. Although the world now functions as a single unit because of modern technology, its political structure is based on fragments, on absolutelysovereign nation states - large compared to tribes, but too small for present-day technology, since they do not include all of mankind. Gross injustices mar today's global economic interdependence, and because of the development of thermonuclear weapons, the continued existence of civilization is threatened by the anarchy that exists today at the international level.

In this chapter, we will discuss nationalism in Europe, and especially the conflicts between absolutely sovereign nation-states that led to the two World Wars. However, it is important to remember that parallel to this story, run others, equally tragic - conflicts in the Middle East, the Vietnam War, the Cuban Missile Crisis, conflicts between India and Pakistan, the Korean War, the two Gulf Wars, and so on. In all of these tragedies, the root the trouble is that international interdependence exists in practice because of modern technology, but our political institutions, emotions and outlook are at the stunted level of the absolutely sovereign nation-state. Although we focus here on German nationalism as an example, and although historically it had terrible consequences, it is not a danger today. Germany is now one of the world's most peaceful and responsible countries, and the threats to world peace now come from nationalism outside Europe.

1.2 Nationalism in Europe

There is no doubt that the founders of nationalism in Europe were idealists; but the movement that they created has already killed more than sixty million people in two world wars, and today it contributes to the threat of a catastrophic third world war.

Nationalism in Europe is an outgrowth of the Enlightenment, the French Revolution, and the Romantic Movement. According to the philosophy of the Enlightenment and the ideas of the French Revolution, no government is legitimate unless it derives its power from the will of the people. Speaking to the Convention of 1792, Danton proclaimed that "by sending us here as deputies, the French Nation has brought into being a grand committee for the general insurrection of peoples."

Since all political power was now believed to be vested in the "nation", the question of national identity suddenly became acutely important. France itself was a conglomeration of peoples - Normans, Bretons, Provencaux, Burgundians, Flemings, Germans, Basques, and Catalans - but these peoples had been united under a strong central government since the middle ages, and by the time of the French Revolution it was easy for them to think of themselves as a "nation". However, what we now call Germany did not exist. There was only a collection of small feudal principalities, in some of which the most common language was German.

The early political unity of France enabled French culture to dominate Europe during the 17th and 18th centuries. Frederick the Great of Prussia and his court spoke and wrote in French. Frederick himself regarded German as a language of ignorant peasants, and on the rare occasions when he tried to speak or write in German, the result was almost incomprehensible. The same was true in the courts of Brandenburg, Saxony, Pomerania, etc. Each of them was a small-scale Versailles. Below the French-speaking aristocracy was a German-speaking middle class and a German or Slavic-speaking peasantry.

The creators of the nationalist movement in Germany were young middle-class Germanspeaking students and theologians who felt frustrated and stifled by the narrow *kleinstädtisch* provincial atmosphere of the small principalities in which they lived. They also felt frustrated because their talents were completely ignored by the French-speaking aristocracy. This was the situation when the armies of Napoleon marched across Europe, easily defeating and humiliating both Prussia and Austria. The young German-speaking students asked themselves what it was that the French had that they did not have.

The answer was not hard to find. What the French had was a sense of national identity.

1.2. NATIONALISM IN EUROPE

In fact, the French Revolution had unleashed long-dormant tribal instincts in the common people of France. It was the fanatical support of the Marseillaise-singing masses that made the French armies invincible. The founders of the German nationalist movement concluded that if they were ever to have a chance of defeating France, they would have to inspire the same fanaticism in their own peoples. They would have to touch the same almost-forgotten cord of human nature that the French Revolution had touched.

The common soldiers who fought in the wars of Europe in the first part of the 18th century were not emotionally involved. They were recruited from the lowest ranks of society, and they joined the army of a king or prince for the sake of money. All this was changed by the French Revolution. In June, 1792, the French Legislative Assembly decreed that a Fatherland Alter be erected in each commune with the inscription, "The citizen is born, lives and dies for *la patrie*." The idea of a "Fatherland Alter" clearly demonstrates the quasi-religious nature of French nationalism.

The soldiers in Napoleon's army were not fighting for the sake of money, but for an ideal that they felt to be larger and more important than themselves - Republicanism and the glory of France. The masses, who for so long had been outside of the politics of a larger world, and who had been emotionally involved only in the affairs of their own village, were now fully aroused to large-scale political action. The surge of nationalist feeling in France was tribalism on an enormous scale - tribalism amplified and orchestrated by new means of mass communication.

This was the phenomenon with which the German nationalists felt they had to contend. One of the founders of the German nationalist movement was Johan Gottlieb Fichter (1762-1814), a follower of the philosopher Immanuel Kant (1724-1804). Besides rejecting objective criteria for morality, Fichte denied the value of the individual. According to him, the individual is nothing and the state is everything. Denying the value of the individual, Fichte compared the state to an organism of which the individual is a part:

"In a product of nature", Fichte wrote, "no part is what it is but through its relation to the whole, and it would absolutely not be what it is apart from this relation; more, if it had no organic relation at all, it would be absolutely nothing, since without reciprocity in action between organic forces maintaining one another in equilibrium, no form would subsist... Similarly, man obtains a determinate position in the scheme of things and a fixity in nature only through his civil association... Between the isolated man and the citizen there is the same relation as between raw and organized matter... In an organized body, each part continuously maintains the whole, and in maintaining it, maintains itself also. Similarly the citizen with regard to the State."

Another post-Kantian, Adam Müller (1779-1829) wrote that "the state is the intimate association of all physical and spiritual needs of the whole nation into one great, energetic, infinitely active and living whole... the totality of human affairs... If we exclude for ever from this association even the most unimportant part of a human being, if we separate private life from public life even at one point, then we no longer perceive the State as a phenomenon of life and as an idea."

The doctrine that Adam Müller sets forth in this passage is what we now call Totalitarianism, i.e. the belief that the state ought to encompass "the totality of human affairs". This doctrine is the opposite of the Liberal belief that the individual is all-important and that the role of the state ought to be as small as possible.

Fichte maintains that "a State which constantly seeks to increase its internal strength is forced to desire the gradual abolition of all favoritisms, and the establishment of equal rights for all citizens, in order that it, the State itself, may enter upon its own true right to apply the whole surplus power of all its citizens without exception to the furtherance of its own purposes... Internal peace, and the condition of affairs in which everyone may by diligence earn his daily bread... is only a means, a condition and framework for what love of Fatherland really wants to bring about, namely that the Eternal and the Divine may blossom in the world and never cease to become more pure, perfect and excellent."

Fichte proposed a new system of education which would abolish the individual will and teach individuals to become subservient to the will of the state. "The new education must consist essentially in this", Fichte wrote, "that it completely destroys the will in the soil that it undertakes to cultivate... If you want to influence a man at all, you must do more than merely talk to him; you must fashion him, and fashion him, and fashion him in such a way that he simply cannot will otherwise than you wish him to will."

The German nation did not exist except in the minds of the nationalists. Groups of people speaking various dialects of German were scattered throughout central and eastern Europe. In many places, the German-speaking population was a minority. To bring together these scattered German-speaking groups would require, in many cases, the conquest and subjugation of Slavic majorities; but the quasi-religious fervor of the nationalists was such that aggression took on the appearance of a "holy war". Fichte believed that war between states introduces "a living and progressive principle into history". By war he did not mean a decorous limited war of the type fought in the 18th century, but "...a true and proper war - a war of subjugation!"

The German nationalist movement was not only quasi-religious in its tone; it also borrowed psychological techniques from religion. It aroused the emotions of the masses to large-scale political activity by the use of semi-religious political liturgy, involving myth, symbolism, and festivals. In his book "German Society" (1814), Arndt advocated the celebration of "holy festivals". For example, he thought that the celebration of the pagan festival of the summer solstice could be combined with a celebration of the victory over Napoleon at the Battle of Leipzig.

Arndt believed that special attention should be given to commemoration of the "noble dead" of Germany's wars for, as he said, "…here history enters life, and life becomes part of history". Arndt advocated a combination of Christian and pagan symbolism. The festivals should begin with prayers and a church service; but in addition, the Oak leaves and the sacred flame of ancient pagan tradition were to play a part.

In 1815, many of Arndt's suggestions were followed in the celebration of the anniversary of the Battle of Leipzig. This festival clearly exhibited a mixing of secular and Christian elements to form a national cult. Men and women decorated with oak leaves made pilgrimages to the tops of mountains, where they were addressed by priests speaking in front of alters on which burned "the sacred flame of Germany's salvation". This borrowing of psychological techniques from religion was deliberate, and it was retained by the Nazi Party



Figure 1.1: Celebration of the "German May" at Hambrach Castle

when the latter adopted the methods of the early German nationalists. The Nazi mass rallies retained the order and form of Protestant liturgy, including hymns, confessions of faith, and responses between the leader and the congregation.¹

In 1832, the first mass meeting in German history took place, when 32,000 men and women gathered to celebrate the "German May". Singing songs, wearing black, red, and gold emblems, and carrying flags, they marched to Hambrach Castle, where they were addressed by their leaders.

By the 1860's the festivals celebrating the cult of nationalism had acquired a definite form. Processions through a town, involving elaborate national symbolism, were followed by unison singing by men's choirs, patriotic plays, displays by gymnasts and sharp-shooters, and sporting events. The male choirs, gymnasts and sharp-shooters were required to wear uniforms; and the others attending the festivals wore oak leaves in their caps. The cohesion of the crowd was achieved not only by uniformity of dress, but also by the space in which the crowd was contained. Arndt advocated the use of a "sacred space" for mass meetings. The idea of the "sacred space" was taken from Stonehenge, which was seen by the nationalists as a typical ancient Germanic meeting place. The Nazi art historian Hubert Schrade wrote: "The space which urges us to join the community of the *Volk* is of greater importance than the figure which is meant to represent the Fatherland."

Dramas were also used to promote a feeling of cohesion and national identity. An example of this type of propagandist drama is Kleist's play, "Hermann's Battle", (1808). The play deals with a Germanic chieftain who, in order to rally the tribes against the

¹ The Nazi sacred symbols and the concept of the swastika or "gamma cross", the eagle, the red/black/white color scheme, the ancient Nordic runes (one of which became the symbol of the SS), were all adopted from esoteric traditions going back centuries, shared by Brahmins, Scottish Masons, Rosicrutians, the Knights Templars and other esoteric societies.

Romans, sends his own men, disguised as Roman soldiers, to commit atrocities in the neighboring German villages. At one point in the play, Hermann is told of a Roman soldier who risked his own life to save a German child in a burning house. Hearing this report, Hermann exclaims, "May he be cursed if he has done this! He has for a moment made my heart disloyal; he has made me for a moment betray the august cause of Germany!... I was counting, by all the gods of revenge, on fire, loot, violence, murder, and all the horrors of unbridled war! What need have I of Latins who use me well?"

At another point in the play, Hermann's wife, Thusnelda, tempts a Roman Legate into a romantic meeting in a garden. Instead of finding Thusnelda, the Legate finds himself locked in the garden with a starved and savage she-bear. Standing outside the gate, Thusnelda urges the Legate to make love to the she-bear, and, as the bear tears him to pieces, she faints with pleasure.

We have primarily been discussing the growth of German nationalism, but very similar movements developed in other countries throughout Europe and throughout the world. Characteristic for all these movements was the growth of state power, and the development of a reverential, quasi-religious, attitude towards the state. Patriotism became "a sacred duty." According to Georg Wilhelm Fredrich Hegel, "The existence of the State is the movement of God in the world. It is the ultimate power on earth; it is its own end and object. It is an ultimate end that has absolute rights against the individual."

Nationalism in England (as in Germany) was to a large extent a defensive response against French nationalism. At the end of the 18th century, the liberal ideas of the Enlightenment were widespread in England. There was much sympathy in England with the aims of the French Revolution, and a similar revolution almost took place in England. However, when Napoleon landed an army in Ireland and threatened to invade England, there was a strong reaction towards national self-defense. The war against France gave impetus to nationalism in England, and military heros like Wellington and Nelson became objects of quasi-religious worship. British nationalism later found an outlet in colonialism.

Italy, like Germany, had been a collection of small principalities, but as a reaction to the other nationalist movements sweeping across Europe, a movement for a united Italy developed. The conflicts between the various nationalist movements of Europe produced the frightful world wars of the 20th century. Indeed, the shot that signaled the outbreak of World War I was fired by a Serbian nationalist.

War did not seem especially evil to the 18th and 19th century nationalists because technology had not yet given humanity the terrible weapons of the 20th century. In the 19th century, the fatal combination of space-age science and stone-age politics still lay in the future. However, even in 1834, the German writer Heinrich Heine was perceptive enough to see the threat:

"There will be", Heine wrote, "Kantians forthcoming who, in the world to come, will know nothing of reverence for aught, and who will ravage without mercy, and riot with sword and axe through the soil of all European life to dig out the last root of the past. There will be well-weaponed Fichtians upon the ground, who in the fanaticism of the Will are not restrained by fear or self-advantage, for they live in the Spirit."

1.3. THE TWO WORLD WARS



Figure 1.2: Otto von Bismark

1.3 The two world wars

In 1870, the fiercely nationalistic Prussian Chancellor, Otto von Bismark, won revenge for the humiliations which his country had suffered under Napoleon Bonaparte. In a lightning campaign, Prussia's modern army overran France and took Emperor Napoleon III prisoner. The victorious Prussians demanded from France not only the payment of a huge sum of money - five billion francs - but also the annexation of the French provinces of Alsace and Lorraine. In 1871, Kaiser Wilhelm I was proclaimed Emperor of all Germany in the Hall of Mirrors at Versailles. The dreams of the German nationalists had been realized! The small German-speaking states of central Europe were now united into a powerful nation dominated by Prussia.

Bismark had provoked a number of wars in order to achieve his aim - the unification of Germany under Prussia; but after 1871 he strove for peace, fearing that war would harm his new creation. "I am bored", Bismark remarked to his friends, "The great things are done. The German Reich is made."

In order to preserve the status quo in Europe, Bismark now made alliances not only with Austria-Hungary and Italy, but also with Russia. To make alliances with both Austria-Hungary and Russia required considerable diplomatic skill, since the two empires were enemies - rivals for influence in the Balkan Peninsula. Several small Balkan states had broken away from the decaying Turkish Empire. Both the Hapsburg Emperors and the Romanoff Czars were anxious to dominate these small states. However, nationalist emotions were even more frenzied in the Balkans than they were elsewhere in Europe. Nationalism was a cause for which 19th century Europeans were willing to kill each other, just as three centuries earlier they had been willing to kill each other over their religious differences.

Serbia was an independent state, but the fanatical Serbian nationalists were far from satisfied. Their real aim was to create an independent Pan-Serbia (or Yugoslavia) which would include all the Slavic parts of Austria-Hungary. Thus, at the turn of the century, the Balkans were a trouble spot, much as the Middle East is a trouble spot today.

Kaiser Wilhelm I was a stable monarch, but in 1888 he died and the German throne passed to his son, Frederick III, who was incurably ill with cancer of the throat. After reigning only 90 days, Frederick also died, and his 29 year old son became the new German Emperor - Kaiser Wilhelm II. Wilhelm II had been born with a withered arm, and as a boy he had been constantly told that he must become a great warrior. His adult behavior sometimes showed tendencies towards both paranoia and megalomania.

In 1890, Wilhelm dismissed Otto von Bismark ("dropping the pilot"). Bismark was now on the side of peace, and he might have guided Germany safely through the troubled waters of European politics if he had been allowed to continue; but Wilhelm wanted to play Bismark himself.

Wilhelm's first act was to break off Germany's alliance with Russia. Czar Alexander III, against his principles, then formed an alliance with republican France. Realizing that he had blundered, Wilhelm tried to patch up relations with the Czar, but it was too late. Europe was now divided into two armed camps - Germany, Austria-Hungary and Italy, opposed by Russia and France.

Wilhelm's government then began to build a huge modern navy, much to the consternation of the English. The government of England felt that it was necessary for their country to have control of the sea, since England was a densely-populated island, dependent on imports of food. It was not only with respect to naval power that England felt threatened: After being united in 1871, Germany had undergone an industrial revolution; and German industries were pouring out steel and high-quality manufactured goods that threatened England's dominance of world trade. Commercial and naval competition with the rising German Empire drove England into an informal alliance with Russia and France - the Triple Entente.

Meanwhile the situation in the Balkans became increasingly troubled, and at the end of July, 1914, the Austrian Foreign Minister, Count Brechtold, used the assassination of Archduke Francis Ferdinand and his wife as a pretext for crushing the Serbian Pan-Slavic movement. Russia mobilized against Austria in defense of the Serbs, and the Austrian government interpreted the mobilization as a declaration of war. Germany was linked to Austria by an alliance, while France was linked to Russia. In this way, both France and Russia were drawn into the conflict.

On August 2, Wilhelm demanded free passage of German troops through Belgium. The Belgians refused. They gave warning that an invasion would be resisted, and they appealed to England for support of their country's neutrality. On August 4, Britain sent an ultimatum to the Kaiser: Unless he halted the invasion of Belgium, Britain would enter the war. The invasion of Belgium rolled on. It was now too late to stop the great death-



machine, and as it gained momentum, Sir Edward Grey spoke the sad and prophetic words. "The lamps are going out all over Europe; we shall not see them lit again in our lifetime."

None of the people who started the First World War had the slightest idea what it would be like. The armies of Europe were dominated by the old feudal landowning class, whose warlike traditions were rooted in the Middle Ages. The counts and barons who still ruled Europe's diplomatic and military establishments knew how to drink champaign, dance elegantly, ride horses, and seduce women. They pranced off to war in high spirits, the gold on their colorful uniforms glittering in the sunshine, full of expectations of romantic cavalry charges, kisses stolen from pretty girls in captured villages, decorations, glory and promotion, like characters in "The Chocolate Soldier" or "Die Fledermaus". The romantic dreams of glory of every small boy who ever played with toy soldiers were about to become a thrilling reality!

But the war, when it came, was not like that. Technology had taken over. The railroads, the telegraph, high explosives and the machine gun had changed everything. The opposing armies, called up by means of the telegraph and massed by means of the railroads, were the largest ever assembled up to that time in the history of the world. In France alone, between August 2 and August 18, 1914, the railway system transported 3,781,000 people under military orders. Across Europe, the railways hurled more than six million highly armed men into collision with each other. Nothing on that scale had ever happened before, and no one had any idea of what it would be like.

At first the Schlieffen Plan seemed to be working perfectly. When Kaiser Wilhelm had sent his troops into battle, he had told them: "You will be home before the leaves are off the trees", and at first it seemed that his prediction would be fulfilled. However, the machine gun had changed the character of war. Attacking infantry could be cut down in heaps by defending machine gunners. The war came to a stalemate, since defense had an



Figure 1.3: World War I casualties.

advantage over attack.

On the western front, the opposing armies dug lines of trenches stretching from the Atlantic to the Swiss border. The two lines of trenches were separated by a tangled mass of barbed wire. Periodically the generals on one side or the other would order their armies to break through the opposing line. They would bring forward several thousand artillery pieces, fire a million or so high explosive shells to cut the barbed wire and to kill as many as possible of the defenders, and then order their men to attack. The soldiers had to climb out of the trenches and struggle forward into the smoke. There was nothing else for them to do. If they disobeyed orders, they would be court-marshalled and shot as deserters. They were driven forward and slaughtered in futile attacks, none of which gained anything. Their leaders had failed them. Civilization had failed them. There was nothing for them to do but to die, to be driven forward into the poison gas and barbed wire and to be scythed down by machine gun fire, for nothing, for the ambition, vanity and stupidity of their rulers.

When the war ended four years later, ten million young men had been killed and twenty million wounded, of whom six million were crippled for life. The war had cost 350,000,000,000 1919 dollars. This was a calculable cost; but the cost in human suffering and brutalization of values was incalculable. It hardly mattered whose fault the catastrophe had been. Perhaps the Austrian government had been more to blame than any other. But blame for the war certainly did not rest with the Austrian people nor with the young Austrians who had been forced to fight. However, the tragedy of the First World War was that it created long-lasting hatred between the nations involved; and in this way it lead, only twenty years later, to an even more catastrophic global war.

The First World War brought about the downfall of four emperors: the Russian Czar, the Turkish Sultan, the Austro-Hungarian Emperor and the German Kaiser. The decaying

1.3. THE TWO WORLD WARS

and unjust Czarist government had for several years been threatened by revolution; and the horrors of the war into which the Czar had led his people were enough to turn them decisively against his government. During 1915 alone, Russia lost more than two million men, either killed or captured. Finally the Russian soldiers refused to be driven into battle and began to shoot their officers. In February, 1917, the Czar abdicated; and on December 5, 1917, the new communist government of Russia signed an armistice with Germany.

The German Chief of Staff, General Ludendorff, then shifted all his troops to the west in an all-out offensive. In March, 1918, he threw his entire army into a gigantic offensive which he called "the Emperor's Battle". The German army drove forward, and by June they were again on the Marne, only 50 miles from Paris. However, the Allies counterattacked, strengthened by the first American troops, and using, for the first time, large numbers of tanks. The Germans fell back, and by September they had lost more than a million men in six months. Morale in the retreating German army was falling rapidly, and fresh American troops were landing in France at the rate of 250,000 per month. Ludendorff realized that the German cause was hopeless and that if peace were not made quickly, a communist revolution would take place in Germany just as it had in Russia.

The old feudal Prussian military caste, having led Germany into disaster, now unloaded responsibility onto the liberals. Ludendorff advised the Kaiser to abdicate, and a liberal leader, Prince Max of Baden, was found to head the new government. On November 9, 1918, Germany was proclaimed a republic. Two days later, an armistice was signed and the fighting stopped.

During the last years of the war the world, weary of the politics of power and nationalist greed, had looked with hope towards the idealism of the American President, Woodrow Wilson. He had proposed a "peace without victory" based on his famous Fourteen Points". Wilson himself considered that the most important of his Fourteen Points was the last one, which specified that "A general association of nations must be formed... for the purpose of affording mutual guaranties of political independence and territorial integrity of great and small states alike."

When Wilson arrived in Europe to attend the peace conference in Paris, he was wildly cheered by crowds of ordinary people, who saw in his idealism new hope for the world. Unfortunately, the hatred produced by four years of horrible warfare was now too great to be overcome. At the peace conference, the aged nationalist Georges Clemenceau was unswerving in his deep hatred of Germany. France had suffered greatly during the war. Half of all French males who had been between the ages of 20 and 32 in 1914 had been killed; much of the French countryside had been devastated; and the retreating German armies had destroyed the French coal mines. Clemenceau was determined to extract both revenge and financial compensation from the Germans.

In the end, the peace treaty was a compromise. Wilson was given his dream, the League of Nations; and Clemenceau was given the extremely harsh terms which he insisted should be imposed on Germany. By signing the treaty, Germany would be forced to acknowledge sole responsibility for having caused the war; it would be forced to hand over the Kaiser and other leaders to be tried as war criminals; to pay for all civilian damage during the war; to agree to internationalization of all German rivers and the Kiel Canal; to give France, Belgium and Italy 25 million tons of coal annually as part of the reparations payments; to surrender the coal mines in Alsace-Lorraine to France; to give up all foreign colonies; to lose all property owned by Germans abroad; and to agree to Allied occupation of the Rhineland for fifteen years.

The loss of coal, in particular, was a death-blow aimed at German industry. Reading the terms of the treaty, the German Chancellor cried: "May the hand wither that signs such a peace!" The German Foreign Minister, Count Ulrich von Brockendorff-Rantzau, refused to sign, and the German government made public the terms of the treaty which it had been offered.

French newspapers picked up the information, and at 4 a.m. one morning, a messenger knocked at the door of the Paris hotel room where Herbert Hoover (the American war relief administrator) was staying, and handed him a copy of the terms. Hoover was so upset that he could sleep no more that night. He dressed and went out into the almost deserted Paris streets, pacing up and down, trying to calm himself. "It seemed to me", Hoover wrote later, "that the economic consequences alone would pull down all Europe and thus injure the United States." By chance, Hoover met the British economist, John Maynard Keynes, who was walking with General Jan Smuts in the pre-dawn Paris streets. Both of them had received transcripts of the terms offered to Germany, and both were similarly upset. "We agreed that it was terrible", Hoover wrote later, "and we agreed that we would do what we could... to make the dangers clear."

In the end, continuation of the blockade forced the Germans to sign the treaty; but they did so with deeply-felt bitterness. Describing the signing of the Versailles treaty on June 28, 1919, a member of the American delegation wrote: "It was not unlike when in olden times the conqueror dragged the conquered at his chariot wheel."

While he participated in the peace negotiations, Wilson had been absent from the United States for six months. During that time, Wilson's Democratic Party had been without its leader, and his Republican opponents made the most of the opportunity. Republican majorities had been returned in both the House of Representatives and the Senate. When Wilson placed the peace treaty before the Senate, the Senate refused to ratify it. Wilson desperately wanted America to join the League of Nations, and he took his case to the American people. He traveled 8,000 miles and delivered 36 major speeches, together with scores of informal talks urging support for the League. Suddenly, in the middle of this campaign, he was struck with a cerebral thrombosis from which he never recovered.

Without Wilson's leadership, the campaign collapsed. The American Senate for a second time rejected the peace treaty, and with it the League of Nations. Without American participation, the League was greatly handicapped. It had many successes, especially in cultural and humanitarian projects and in settling disputes between small nations; but it soon became clear that the League of Nations was not able to settle disputes between major powers.

Postwar Germany was in a state of chaos - its economy in ruins. The nation was now a republic, with its capital in Weimar, but this first experiment in German democracy was not running smoothly. Many parts of the country, especially Bavaria, were swarming with secret societies led by former officers of the German army. They blamed the republican



Figure 1.4: Hitler addresses a rally at Dortmund in 1932

government for the economic chaos and for signing a disgraceful peace treaty. The "war guilt" clause of the treaty especially offended the German sense of honor.

In 1920 a group of nationalist and monarchist army officers led by General Ludendorff staged an army revolt or "Putsch". They forcibly replaced the elected officials of the Weimar Republic by a puppet head of state named Dr. Kapp. However, the republic was saved by the workers of Berlin, who turned off the public utilities.

After the failure of the "Kapp Putsch", Ludendorff went to Bavaria, where he met Adolf Hitler, a member of a small secret society called the National Socialist German Workers Party. (The name was abbreviated as "Nazi" after the German pronunciation of the first two syllables of "National"). Together, Ludendorff and Hitler began to plot another "Putsch".

In 1921, the Reparations Commission fixed the amount that Germany would have to pay at 135,000,000,000 gold marks. Various western economists realized that this amount was far more than Germany would be able to pay; and in fact, French efforts to collect it proved futile. Therefore France sent army units to occupy industrial areas of the Ruhr in order to extract payment in kind. The German workers responded by sitting down at their jobs. Their salaries were paid by the Weimar government, which printed more and more paper money. The printing presses ran day and night, flooding Germany with worthless currency. By 1923, inflation had reached such ruinous proportions that baskets full of money were required to buy a loaf of bread. At one point, four trillion paper marks were equal to one dollar. This catastrophic inflation reduced the German middle class to poverty and destroyed its faith in the orderly working of society.

The Nazi Party had only seven members when Adolf Hitler joined it in 1919. By 1923, because of the desperation caused by economic chaos, it had grown to 70,000 members. On November 8, 1923, there was a meeting of nationalists and monarchists at the Bürgerbräw beer hall in Munich. The Bavarian State Commissioner, Dr. Gustav von Kahr, gave a

SELLING WEAPONS, SELLING WAR

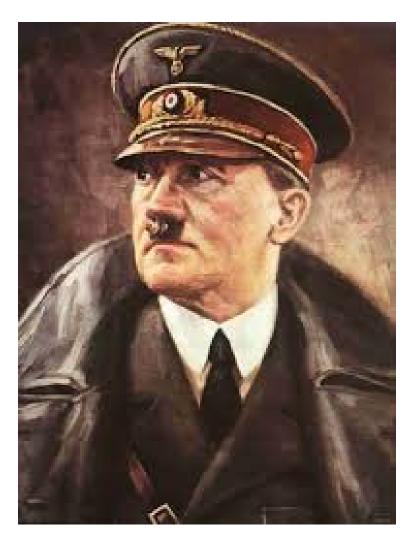


Figure 1.5: A portrait of Adolf Hitler

speech denouncing the Weimar Republic. He added, however, that the time was not yet ripe for armed revolt.

In the middle of Kahr's speech, Adolf Hitler leaped to the podium. Firing two revolver bullets into the ceiling Hitler screamed that the revolution was on - it would begin immediately! He ordered his armed troopers to bar the exits, and he went from one Bavarian leader to the other, weeping with excitement, a beer stein in one hand and a revolver in the other, pleading with them to support the revolution. At this point, the figure of General Ludendorff suddenly appeared. In full uniform, and wearing all his medals, he added his pleading to that of Hitler. The Bavarian leaders appeared to yield to Hitler and Ludendorff; and that night the Nazis went into action. Wild disorder reigned in Munich. Republican newspapers and trade union offices were smashed, Jewish homes were raided, and an attempt was made to seize the railway station and the post office. However, units of policemen and soldiers were forming to resist the Nazis. Hitler realized that the Bavarian government officials under Kahr had only pretended to go along with the revolution in order to escape from the armed troopers in the beer hall.

At dawn, Hitler grouped his followers together for a parade to show their strength and to intimidate opposition. With swastika flags flying, the Nazis marched to the main square of Munich. There they met troops of Bavarian government soldiers and policemen massed in force. A volley of shots rang out, and 18 Nazis fell dead. Many other Nazis were wounded, and the remainder scattered. Hitler broke his shoulder diving for the pavement. Only General Ludendorff remained standing where he was. The half-demented old soldier, who had exercised almost dictatorial power over Germany during the last years of the war, marched straight for the Bavarian government troops. They stepped aside and let him pass.

Adolf Hitler was arrested and sentenced to five years in prison. After serving less than a year of his sentence, he was released. He had used the time in prison to write a book, *Mein Kampf.*

1.4 Hitler's occultism: The influence of Dietrich Eckart

The composer Richard Wagner was obsessed with German nationalism and folklore, and Hitler was hugely inspired by him. Hitler once said, "In order to understand the Nazi Party, you must understand Wagner." Hitler also believed that the new humanity would be free of "the dirty and degrading chimera called conscience and morality", as well as "the burden of free will" and "personal responsibility", which should be borne only by the few with the fortitude to make the awful decisions necessary for the good of humanity. All the world's problems would be put right by the new order of subservient masses ruled by the Supermen.

Besides Richard Wagner, one of the most important influences on Hitler was Dietrich Eckart, an occultist and member of the esoteric Thule Society. Eckart was the wealthy publisher of an anti-Semitic journal, and in 1919, alerted by other Thule Society members who had been impressed by Hitler's beer-hall speeches, he arranged a meeting with the young nationalist. Eckart indoctrinated Hitler with anti-Semitism and occultism, and helped him to develop a self-confident, highly emotional, almost hypnotic style of public speaking. Influenced by Eckart, Hitler began to think of himself as the Messiah who was destined to save Germany, magically invincible and invulnerable. Eckart's wealth financed the Deutsche Arbeiterpartei, which later evolved into the Nazi Party.

Wikipedia states that "The Thule Society originally the Studiengruppe für germanisches Altertum ("Study Group for Germanic Antiquity"), was a German occultist and völkisch group founded in Munich right after World War I, named after a mythical northern country in Greek legend. The society is notable chiefly as the organization that sponsored the Deutsche Arbeiterpartei (DAP; German Workers' Party), which was later reorganized by Adolf Hitler into the National Socialist German Workers' Party (NSDAP or Nazi Party). According to Hitler biographer Ian Kershaw, the organization's "membership list … reads like a Who's Who of early Nazi sympathizers and leading figures in Munich".

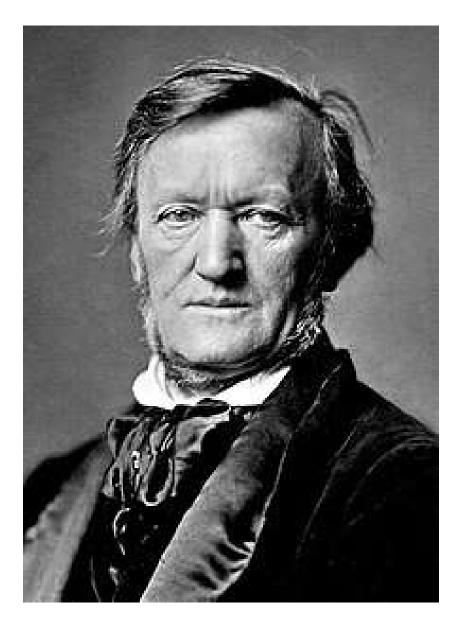


Figure 1.6: Wagner's dramas were part of the quasi-religious cult of German nationalism. They were designed to create "an unending dream of sacred *völkisch* revelation". No applause was permitted, since this would disturb the reverential atmosphere of the cult. A new type of choral theater was developed which "...no longer represented the fate of the individual to the audience, but that which concerns the community, the *Volk*... Thus, in contrast to the bourgeois theater, private persons are no longer represented, but only types."



Figure 1.7: Dietrich Eckart was a key influence on Adolf Hitler.

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SELLING WEAPONS, SELLING WAR

Chapter 2

WHY GERMANY WAS ALLOWED TO REARM

2.1 The British upper classes were protecting their privileges

Put very simply, the reason why so many influential people in Britain favored German rearmament during the period between World Wars I and II was that they feared communism or socialism. There had been a revolution in Russia, in which the nobles lost their privileges, Influential people in Britain feared that the same thing could happen in the west, and they regarded Hitler as a "bulwark against communism".

2.2 Unity Mitford and Hitler

Unity Valkyrie Freeman-Mitford (1914-1948) was one of the two Mitford sisters who became notorious for their advocacy of fascism and anti-semitism. Unity's sister Diana left her husband to have an affair with Sir Oswald Mosley, leader of the British Union of Fascists, whom she later married.

Mosley's son, Nicholas, stated that: "Unity became a very extrovert member of the party, which was her way ... She joined my father's party and she used to turn up, she used to go around in a black shirt uniform, and she used to turn up at communist meetings and she used to do the fascist salute and heckle the speaker. That was the sort of person she was". He adds that although his father admired Unity's commitment, Mosley felt "She wasn't doing him any good, because she was making an exhibition of herself."

The two sisters, Unity and Diana, travelled to Germany to attend the Nuremberg Rally as part of a delegation from the British Union of Fascists. Unity said later "The first time I saw him I knew there was no one I would rather meet." According to her biographer, Anne de Courcy, "The Nuremberg rally had a profound effect on both Diana and Unity [...] Unity was already, as it were, convinced about Hitler, but this turned conviction into



Figure 2.1: David Bertram Ogilvy Freeman-Mitford, 2nd Baron Redesdale (1878-1958), with his family in 1928. He was a fascist and anti-semite, like his daughters, Unity and Diana.

worship. From then on she wanted to be near Hitler as much as possible"

In 1934, Unity returned to Germany, where she enrolled in a language school in Munich, near to the Nazi headquarters. A biographer, Pryce Jones commented that "She set her mind on getting Hitler, and she discovered that Hitler's movements could be ascertained. It's one of the extraordinary things about Hitler's daily life that he was so available to the public. You knew which café he'd be in, you knew which restaurant he'd be in, which hotel, and he would just go and meet people over sticky buns and cakes, and it was possible to meet him like that. And he was in the habit of eating in the Osteria Bavaria in Munich and she started sitting in the Osteria Bavaria every day. So he would have to come into the front part of the restaurant where there was this English girl."

After ten months of this stalking, Hitler finally invited Unity over to his table. They talked for 30 minutes, and Hitler paid her bill. In a letter to her father, Unity wrote, "It was the most wonderful and beautiful [day] of my life. I am so happy that I wouldn't mind a bit, dying. I'd suppose I am the luckiest girl in the world. For me he is the greatest man of all time".

For his part, Hitler was fascinated with this young blond English girl whose middle name was Valkyrie, and who seemed to be curiously connected to German culture. In fact, Unity's grandfather, Algernon Freeman-Mitford, had been a friend of Hitler's idol, Richard Wagner. Unity and Hitler became close. She became part of his inner circle, and he used their friendship to make Eva Braun jealous.



Figure 2.2: Unity Mitford and Hitler. When Britain declared war on Germany in September 1939, a distraught Unity went to the Englischer Garten park in Munich (the English Garden) and shot herself in the head.

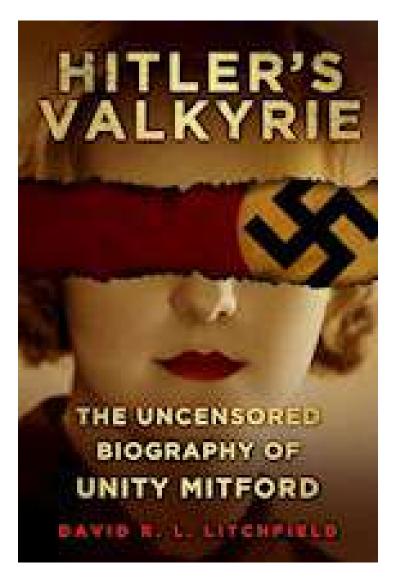


Figure 2.3: A book about the relationship between Unity and Hitler. Upon her return to Britain - with a bullet remaining lodged in her brain - Unity was vilified as an enemy of the state and the Home Office faced calls to have her interned.



Figure 2.4: Unity's sister Diana married Sir Oswald Mosley, leader of the British Union of Fascists.



Figure 2.5: Unity "was right in the inner circle of Nazi leadership" according to her biographer, David Pryce-Jones.

2.3 The British Union of Fascists

Some prominent members and supporters of the British Union of Fascists

- William Edward David Allen MP was the Unionist Member of Parliament for Belfast West.
- John Beckett MP was the Labour Member of Parliament for Peckham.
- Frank Bossard was a British Spy
- Patrick Boyle, 8th Earl of Glasgow was a member of the House of Lords
- Sir Malcolm Campbell was a racing motorist and motoring journalist.
- A. K. Chesterton was a journalist
- Lady Cynthia Curzon (known as 'Cimmie') was the second daughter of George Curzon, Lord Curzon of Kedleston, and the wife of Sir Oswald Mosley until her death in 1933.
- Robert Forgan MP was the Labour Member of Parliament for West Renfrewshire.
- Major General John Frederick Charles Fuller was a military historian and strategist.
- Billy Fullerton, leader of the Billy Boys gang from Glasgow.
- Arthur Gilligan was the Captain of the England cricket team
- Sir Reginald Goodall was a noted English conductor.
- Group Captain Sir Louis Leisler Greig was a British naval surgeon, courtier and intimate of King George VI.
- Harold Sidney Harmsworth, 1st Viscount Rothermere was the owner of the Daily Mail and a member of the House of Lords.
- Josslyn Hay, 22nd Earl of Erroll was a member of the House of Lords
- William Joyce, later nicknamed Lord Haw-Haw
- David Freeman-Mitford, 2nd Baron Redesdale, in addition to his wife, Lady Redesdale, and two of his daughters:
- Diana Mitford (Lady Mosley, after marriage to Sir Oswald Mosley in 1936)
- The Hon. Unity Mitford
- St John Philby was an explorer, and father of Kim Philby.
- Sir Alliott Verdon Roe was a pilot and businessman
- Edward Frederick Langley Russell, 2nd Baron Russell of Liverpool was a member of the House of Lords
- Lady Russell
- Edward Russell, 26th Baron de Clifford was a member of the House of Lords
- Hastings Russell, 12th Duke of Bedford was a member of the House of Lords
- Frank Cyril Tiarks was the Director of the Bank of England.
- Sir Frederick Toone was the manager of the England Cricket team



Figure 2.6: Sir Oswald Mosley, leader of the British Union of Fascists.



Figure 2.7: Italy's *Duce* Benito Mussolini (left) with Leader Oswald Mosley (right) during Mosley's visit to Italy in 1936.

2.4 Hitler and the Duke and Duchess of Windsor

The Windsors visit Germany in 1937

After marrying the twice-divorced American, Wally Simpson, Edward VIII had abdicater from his position as King of England. He and his new wife were afterwards known as the Duke and Duchess of Windsor. Edward's new wife was never accepted by British society, and Edward was anxious that she should experience the defference shown to the wife of royalty on an official visit. He therefoe accepted an invitation to visit Germany, ostensable to visit factories and examine the conditions of the workers.

According to Deborah Cadbury, "Adolf Hitler and his foreign minister, Joachim von Ribbentrop, savoured the prospect of a tour of Nazi Germany by Britain's ex-king. Of all the pieces moving swiftly across the chessboard of European diplomacy, the former king turning up in the heart of Berlin was an unexpected bonus."

According to Wikipedia, "The couple were chaperoned in Germany by Robert Ley, and they visited many factories - some producing materiel as part of the arms race - being greeted by the British national anthem and nazi salutes, which were often returned by the Duke. They also dined regularly with high ranking Nazis such as Goebbels, $G\tilde{A}$ ¶ring, von Ribbentrop, Speer, and, the highlight of their tour, Hitler in Berchtesgaden. There, he and the Duke had a long discussion, although it is uncertain precisely what they talked about as the minutes to their meeting were later lost. At the same time, the Duchess took



Figure 2.8: Hitler received the Duke and Duchess of Windsor with all the ceremony that would have been due to royalty.

high tea with Hitler's deputy, Rudolf Hess. Hitler was openly sympathetic to the Windsors while the British Government, for its part, was helpless to affect the course of events, particularly as it had forbidden its diplomatic staff in Germany to have any high-level interaction with the couple. Popular opinion of the couple soon declined, and the second leg of the Windsors' tour to America was cancelled."

Meeting with Hitler

The high point of the Windsor's tour was a meeting with Adolf Hitler in his Bavarian retreat, which was known as the Berghof. According to a contemporary witness, "The Duchess was visibly impressed with the Führer's personality, and he apparently indicated that they had become fast friends by giving her an affectionate farewell. [Hitler] took both their hands in his saying a long goodbye, after which he stiffened to a rigid Nazi salute that the Duke returned."



Figure 2.9: In fact, Hitler hoped to make the Windsors into a pro-Nazi King and Queen of England.

2.5 Hitler: A bulwark for the Establishment

Here are some quotations from an essay by Ian Keneth Buckley entitled Australia'a Foreign Wars, Origins, Costs, Future? 8. Supporting Germany's Rearmament & the Steady Slide to WWII. Reading these quotations from the carefully researched essay, we can see clearly why so many promanent figures in England's "Establishment" made the fatal mistake of supporting German rearmament, despite the provisions of the Treaty of Versailles, and despite Winston Churchill's many warnings.

Hitler and a rearmed Germany were seen as bulwarks againest the real threat: a more equal distribution of wealth. A communist revolution had taken place in Russia. It was feared that this revolution might spread to Germany or even to England. Hitler was known to be a fervent opponent of communism. He was known to use strong measures to suppress and ban the Communist Party, and he was known to have plans to increase German "lebensraum" by attacking Russia. Therefore, since communism was seen to be the great enemy, it was logical for the British Establishment to support the rearmament of Germany.

Understanding Appeasement: What drove British Policy?

To better understand the motivation behind the British governments' policy of so-called 'appeasement', in fact their 'accommodation' to and often frank encouragement of Germany's rearmament and foreign policy aims under Hitler, we need to go back to the early post-WWI scene. In Russia, long decades of domestic oppression capped by the terrible sufferings endured during the Great War, had culminated in the revolution of 1917 and, as related above, capitulation to Germany. Fighting on the Eastern front stopped, allowing Germany to transfer many divisions to the Western Front and for a while the possibility of a German victory seemed all too real. With all combatants close to exhaustion, it was a close call, but when the United States took sides in 1917 and entered the battle lines in force in mid 1918, the balance tipped in favour of the Allies. Only then was it possible for the European 'victors' finally to proudly proclaim not only that Germany had 'started the war' but that it, with its allies, had 'lost' it.

However, as we have seen, since all sides (other than the USA and Japan) had suffered such extreme human carnage, vast material wastage and debt, the greater reality was that all had lost, - millions of families bereaved, millions maimed in body and mind, all survivors exhausted, all prime combatant countries' economies ruined. Understandably, then, there was a very widespread dissatisfaction with the old ways of doing things which led most people not only to seek, but to *expect* genuine reforms. That brought great fear in high places - fear of any disturbance to the old ways, the 'old order', fear that revolution (which had already occurred in Russia and was all too close in Germany) might,

like a virus, infect other Western Powers - even France and Britain. This fear, already very strong at the war's end, was further aggravated by the failure to deal with the old social and economic inequalities, especially when these led to total collapse of the market economies, to the Great Depression with its massive unemployment and hardship in the midst of plenty. And the societal response to these greatly worsened conditions simply heightened the fears of the overly privileged to the point of obsession.

In the early days after World War I and Russia's revolution, the most urgent concern was for the German situation. Might not the defeated, suffering, demoralised Germans opt for a more egalitarian, a 'socialist' solution to their predicament? For Lloyd George, who had been Britain's Prime Minister for most of the war and was its chief representative at the 1919 Paris Peace Conference, that concern overshadowed all others. We see this in his 'Fontainbleu *Memorandum*' presented to Peace Conference delegates. In this he seemed at first to recognise that the defeated nations must not be saddled with inequalities and injustices which would only make for a further World War - perhaps 'a mere 30 years on'. All sounded pure wisdom, the sort of common sense that could guarantee the security of one's own country along with that of others. However, the motivation behind Lloyd George's Conference message was anything but pure. For soon we learn "But there is a consideration in favour of long-sighted peace which influences me even more than the desire to leave no causes justifying a fresh outbreak 30 years hence. There is a deep sense not only of discontent, but of anger and revolt amongst the workmen against pre-war conditions. The whole existing order is questioned by the mass of the population from one end of Europe to the other."

In particular he was concerned that such conditions in the defeated Germany could, following the Russian example, make it 'go Bolshevist'. And even more alarming, that Britain and France could go the same way. So his prime worry, his overriding concern (which persisted throughout the 1920s and '30s) was not the avoidance of conditions certain to lead to a 'fresh outbreak', a future European war, but the threat to his concept of the 'long-sighted peace', the long-revered 'traditional arrangements' for the creation and (mal)distribution of wealth, both nationally and internationally.

Thus, while in his *Memorandum*, Lloyd George wrote that "...we will open to her (i.e., Germany) the raw materials and markets of the world on equal terms with ourselves, and will do everything possible to enable the German peoples to get upon their legs again. We cannot both cripple her and expect her to pay." he at the same time had no plans to carry out the moves essential for that pacific future. Obviously these would have included: (i) the sharing of responsibility for the war's origin, (ii) limiting German reparations to invasion-caused material damage, (iii) accepting German exports as Reparations payments, (iv) implementing universal arms limitation; (v) honouring the pledges for the self-determination of peoples; and (vi) instituting fair dealing in economic affairs both at home and abroad. But in the event, these were either absent or severely constrained by the over-riding urge to maintain the 'Old Order' as it was before the war.

That of course meant upholding the 'normal' divide between rich and poor, both nationally and internationally (including the application of the Versailles' Treaty's 'guilt', 'economic' and 'Reparations' Clauses on Germany), maintaining and extending Britain's colonial possessions, and thwarting moves towards overcoming it's entrenched poverty at home, what Churchill referred to as "the social problem" - let alone instituting any degree of 'communism', 'socialism' or 'egalitarianism'. Indeed, it was to mean perpetuating all sorts of inequalities and injustices which all too soon were to lead to the Great Depression and then a Second World War, not 30 but a mere 20 years after the First. And since the principal concern of the powerful voices within Britain was the avoidance of risk to any significant redistribution of wealth, that concern was translated into policies designed to block such trends, including their absurd support of German rearmament under Hitler - one known to be a fervent anti-communist and, moreover, one known to have territorial designs on Eastern Europe and Soviet Russia, the communist USSR...

Churchill's summing up

Commenting on [Chamberlain's] extraordinary about-face, Churchill wrote "Look back and see what we had successively accepted and thrown away: a Germany rearmed in violation of a solemn treaty; air superiority or even air parity cast away; the Rhineland forcibly occupied and the Siegfried Line built or building; the Berlin-Rome Axis established; Austria devoured and digested by the Reich: Czechoslovakia deserted and ruined by the Munich Pact, its fortress line in German hands, its mighty arsenal of Skoda henceforward making munitions for the German armies; President Roosevelt's effort to tabilise or bring to a head the European situation by the intervention of the United States waved aside with one hand and Soviet Russia's undoubted willingness to join the Western Powers and go all lengths to save Czechoslovakia ignored on the other; the services of thirty five Czech divisions against the still unripened German army cast away, when great Britain could herself supply only two to strengthen the front in France; all gone with the wind.History may be scoured and ransacked to find a parallel to this sudden and complete reversal of five or six years' policy of easy-going placatory appeasement, and its transformation almost overnight into a readiness to accept an obviously imminent war on far worse conditions and on the greatest scale.which

must surely lead to the slaughter of tens of millions of people."

Suggestions for further reading

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Chapter 3

THE ARMS RACE

3.1 The arms race prior to World War 1

In an article entitled Arms Race Prior to 1914, Armament Policy¹, Eric Brose writes: "New weapons produced during the Industrial Revolution in the late 1800s heightened existing tensions among European nations as countries strove to outpace their enemies technologically. This armaments race accelerated in the decade before 1914 as the Triple Alliance of Germany, Austria-Hungary, and Italy squared off against the Triple Entente of France, Russia, and Britain. Germany's fears of increases in Russian armaments, and British fears of the German naval buildup, contributed heavily to the outbreak and spread of the First World War in 1914."

The Wikipedia article on *Arms race* states that "From 1897 to 1914, a naval arms race between the United Kingdom and Germany took place. British concern about rapid increase in German naval power resulted in a costly building competition of Dreadnoughtclass ships. This tense arms race lasted until 1914, when the war broke out. After the war, a new arms race developed among the victorious Allies, which was temporarily ended by the Washington Naval Treaty.

"In addition to the British and Germans, contemporaneous but smaller naval arms races also broke out between Russia and the Ottoman Empire; the Ottomans and Greece; France and Italy; the United States and Japan; and Brazil, Argentina, and Chile.

"The United Kingdom had the largest navy in the world. In accord with Wilhelm II's enthusiasm for an expanded German navy and the strong desires of Grand Admiral Alfred von Tirpitz, Secretary of State of the German Imperial Naval Office, four Fleet Acts from 1898 and 1912 greatly expanded the German High Seas Fleet. The German aim was to build a fleet that would be two thirds the size of the British navy. The plan was sparked by the threat of the British Foreign Office in March 1897, after the British invasion of Transvaal that started the Boer War, of blockading the German coast and thereby crippling the German economy if Germany intervened in the conflict in Transvaal. From 1905 onward, the British navy developed plans for such a blockade, which was a

¹International Encyclopedia of the First World War

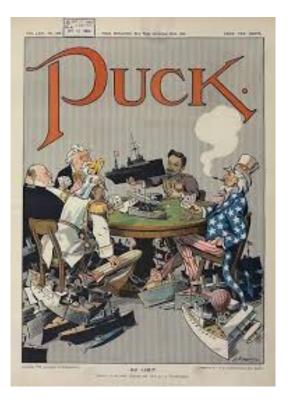


Figure 3.1: Left to right, US, Britain, Germany, France and Japan, engage in a "no limits" game for naval supremacy.

central part of British strategy.

"In reaction to the challenge to its naval supremacy, from 1902 to 1910, the British Royal Navy embarked on a massive expansion to keep ahead of the Germans. The competition came to focus on the revolutionary new ships based on HMS Dreadnought, which was launched in 1906."

3.2 Krupp, Thyssen and Germany's steel industry

The Krupp family business, known as Friedrich Krupp AG, was the largest company in Europe at the beginning of the 20th century. It was important to weapons development and production in both world wars. One of the most powerful dynasties in European history, for 400 years Krupp flourished as the premier weapons manufacturer for Germany. From the Thirty Years' War until the end of the Second World War, they produced everything from battleships, U-boats, tanks, howitzers, guns, utilities, and hundreds of other commodities.

The Thyssen family similarly profited from the arms races prior to World War I and World War II. August Thyssen (1842-1925) founded a large iron and steel company in the Ruhr district of Germany, and was succeeded by his son Fritz Thyssen, who greatly aided Hitler's rise to power.

49



Figure 3.2: Map of European colonies in Africa in 1914, just before the First World War. Source: www.createdebate.com

3.3 Colonialism and the outbreak of the First World War

The First World War broke out approximately 100 years ago, and much thought has been given to the causes of this tragic event, whose consequences continue to cast a dark shadow over the human future. When the war ended four years later, ten million young men had been killed and twenty million wounded, of whom six million were crippled for life. The war had cost 350,000,000,000 1919 dollars. This was a calculable cost; but the cost in human suffering and brutalization of values was incalculable.

It hardly mattered whose fault the catastrophe had been. Perhaps the Austrian government had been more to blame than any other. But blame for the war certainly did not rest with the Austrian people nor with the young Austrians who had been forced to fight. However, the tragedy of the First World War was that it created long-lasting hatred between the nations involved; and in this way it lead, only twenty years later, to an even more catastrophic global war, during the course of which nuclear weapons were developed.

Most scholars believe that competing colonial ambitions played an important role in setting the stage for the First World War. A second factor was an armaments race between European countries, and the huge profits gained by arms manufacturers. Even at that time, the Military-industrial complex was firmly established; and today it continues to be the greatest source of war, together with neocolonialism.²

²http://alphahistory.com/worldwar1/imperialism/ http://www.flowofhistory.com/units/etc/19/26 http://alphahistory.com/worldwar1/militarism/



Figure 3.3: Prescott Bush, the father of George H.W. Bush and grandfather of George W. Bush, supported Hitler's rise to power with large financial contributions to the Nazi Party. The photo shows them together. Source: topinfopost.com

3.4 Prescott Bush and Hitler

Prescott Sheldon Bush (1895-1972), the father of George H.W. Bush and grandfather of George W. Bush, actively supported the revival of Germany's armament's industry in the 1930's, as well as supplying large amounts of money to Adolf Hitler's Nazi Party.³

An article in *The Guardian*⁴, Ben Aris and Dubcab Campbell write that "George Bush's grandfather, the late US senator Prescott Bush, was a director and shareholder of companies that profited from their involvement with the financial backers of Nazi Germany.

"The Guardian has obtained confirmation from newly discovered files in the US National Archives that a firm of which Prescott Bush was a director was involved with the financial architects of Nazism.

"His business dealings, which continued until his company's assets were seized in 1942 under the Trading with the Enemy Act, has led more than 60 years later to a civil action for damages being brought in Germany against the Bush family by two former slave laborers at Auschwitz and to a hum of pre-election controversy.

"The debate over Prescott Bush's behavior has been bubbling under the surface for some time. There has been a steady Internet chatter about the "Bush/Nazi" connection,

³https://www.youtube.com/watch?v=TnHnjmCYjy4

 $https://www.youtube.com/watch?v{=}7BZCfbrXKs4$

 $https://www.youtube.com/watch?v{=}7BZCfbrXKs4$

http://www.george walker bush.net/bushfamily funded hitler.htm

http://www.theguardian.com/world/2004/sep/25/usa.secondworldwar

 $^{^{4}}$ September 25, 2004

much of it inaccurate and unfair. But the new documents, many of which were only declassified last year, show that even after America had entered the war and when there was already significant information about the Nazis' plans and policies, he worked for and profited from companies closely involved with the very German businesses that financed Hitler's rise to power. It has also been suggested that the money he made from these dealings helped to establish the Bush family fortune and set up its political dynasty.

"Bush was also on the board of at least one of the companies that formed part of a multinational network of front companies to allow [Fritz] Thyssen to move assets around the world.

"Thyssen owned the largest steel and coal company in Germany and grew rich from Hitler's efforts to re-arm between the two world wars. One of the pillars in Thyssen's international corporate web, UBC, worked exclusively for, and was owned by, a Thyssencontrolled bank in the Netherlands. More tantalizing are Bush's links to the Consolidated Silesian Steel Company (CSSC), based in mineral rich Silesia on the German-Polish border. During the war, the company made use of Nazi slave labor from the concentration camps, including Auschwitz. The ownership of CSSC changed hands several times in the 1930s, but documents from the US National Archive declassified last year link Bush to CSSC, although it is not clear if he and UBC were still involved in the company when Thyssen's American assets were seized in 1942."

3.5 Fritz Thyssen supports Hitler's rise to power

"In 1923, Thyssen met former General Erich Ludendorff, who advised him to attend a speech given by Adolf Hitler, leader of the Nazi Party. Thyssen was impressed by Hitler and his bitter opposition to the Treaty of Versailles, and began to make large donations to the party, including 100,000 gold marks in 1923 to Ludendorff. In this he was unusual among German business leaders, as most were traditional conservatives who regarded the Nazis with suspicion. Thyssen's principal motive in supporting the National Socialists was his great fear of communism; he had little confidence that the various German anticommunist factions would prevent a Soviet-style revolution in Germany unless the popular appeal of communism among the lower classes was co-opted by an anticommunist alternative. Postwar investigators found that he had donated 650,000 Reichsmarks to right-wing parties, mostly to the Nazis, although Thyssen himself claimed to have donated 1 million marks to the Nazi Party. Thyssen remained a member of the German National People's Party until 1932, and did not join the Nazi Party (National Socialist German Workers' Party) until 1933.

"In November, 1932, Thyssen and Hjalmar Schacht were the main organizers of a letter to President Paul von Hindenburg urging him to appoint Hitler as Chancellor. Thyssen also persuaded the Association of German Industrialists to donate 3 million Reichsmarks to the Nazi Party (National Socialist German Workers' Party) for the March, 1933 Reichstag election. As a reward, he was elected a Nazi member of the Reichstag and appointed to the Council of State of Prussia, the largest German state (both purely honorary positions).



Figure 3.4: An arms race between the major European powers contributed to the start of World War I.

"Thyssen welcomed the suppression of the Communist Party, the Social Democrats and the trade unions. In 1934 he was one of the business leaders who persuaded Hitler to suppress the SA, leading to the "Night of the Long Knives". Thyssen accepted the exclusion of Jews from German business and professional life by the Nazis, and dismissed his own Jewish employees. But as a Catholic, he objected to the increasing repression of the Roman Catholic Church, which gathered pace after 1935: in 1937 he sent a letter to Hitler, protesting the persecution of Christians in Germany.[4] The breaking point for Thyssen was the violent pogrom against the Jews in November 1938, known as Kristallnacht, which caused him to resign from the Council of State. By 1939 he was also bitterly criticizing the regime's economic policies, which were subordinating everything to rearmament in preparation for war."



Figure 3.5: World War I was called "The War to End All Wars". Today it seems more like The War that Began All Wars.

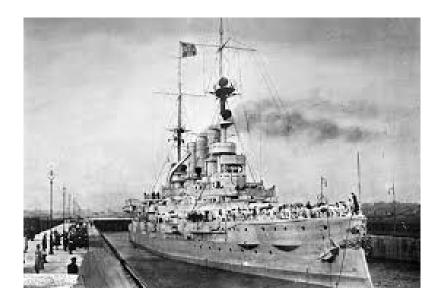


Figure 3.6: The naval arms race, which contributed to the start of World War I, enriched steel manufacturers and military shipbuilders.

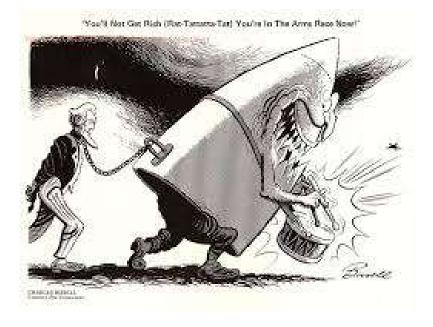


Figure 3.7: Who is the leader, and who the follower?

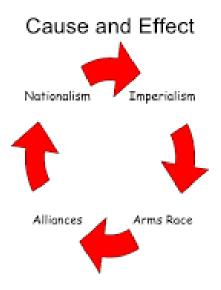


Figure 3.8: A vicious circle.

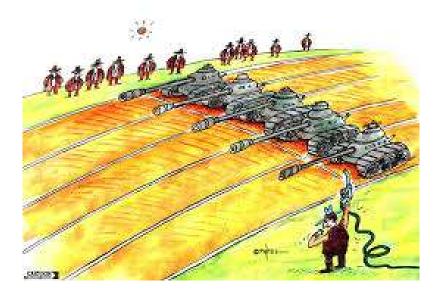


Figure 3.9: Ready, set, go!

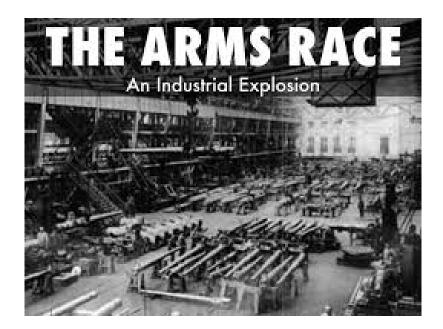


Figure 3.10: If our economies depend on armaments industries, it is an unhealthy dependence, analogous to drug addiction.



Figure 3.11: The nuclear arms race casts a dark shadow over the future of human civilization and the biosphere.



Figure 3.12: During the Cuban Missile Crisis, the world came close to a catastrophic thermonuclear war.

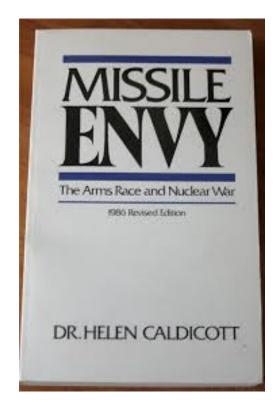


Figure 3.13: Dr. Helen Caldecott has worked to document the dangers of both nuclear weapons and nuclear power generation.

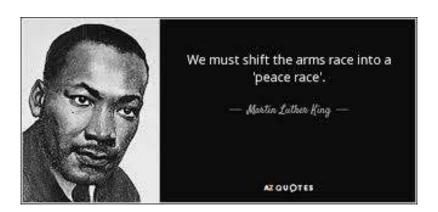


Figure 3.14: We must listen to the wise words of Dr. Martin Luther King, Jr.

3.6 Eisenhower's farewell address

In his famous farewell address, US President Dwight Eisenhower eloquently described the terrible effects of an overgrown Military-industrial complex. Here are his words:

"We have been compelled to create a permanent armaments industry of vast proportions.... This conjunction of an immense military establishment and a large arms industry is new in the American experience. The total influence, economic, political, even spiritual, is felt in every city, every State house, every office of the Federal government...[and] we must not fail to comprehend its grave implications. Our toil, resources and livelihood are all involved; so is the very structure of our society.

"In the councils of government, we must guard against the acquisition of unwarranted influence, whether sought or unsought, by the Military-industrial complex. The potential for the disastrous rise of misplaced power exists and will persist."

In another speech, he said: "Every gun that is made, every warship launched, every rocket fired signifies, in the final sense, a theft from those who hunger and are not fed, those who are cold and are not clothed. This world in arms is not spending money alone. It is spending the sweat of its laborers, the genius of its scientists, the hopes of its children."

Today the world spends more than 1.7 trillion dollars (\$1,700,000,000,000) every year on armaments. This vast river of money, almost too large to be imagined, is the "devil's dynamo" driving the institution of war. Politicians notoriously can be bought with a tiny fraction of this enormous amount; hence the decay of democracy. It is also plain that if the almost unbelievable sums now wasted on armaments were used constructively, most of the pressing problems now facing humanity could be solved.

Because the world spends almost two thousand billion dollars each year on armaments, it follows that very many people make their living from war. This is the reason why it is correct to speak of war as an institution, and why it persists, although we know that it is the cause of much of the suffering that inflicts humanity.

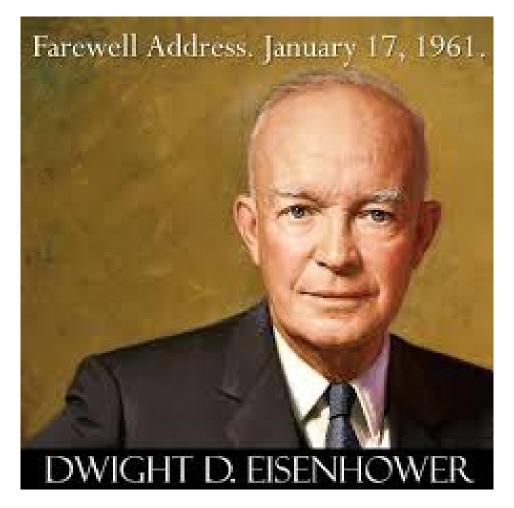


Figure 3.15: "In the councils of government, we must guard against the acquisition of unwarranted influence, whether sought or unsought, by the Militaryindustrial complex. The potential for the disastrous rise of misplaced power exists and will persist."

3.7 The nuclear arms race

Flaws in the concept of nuclear deterrence

Before discussing other defects in the concept of deterrence, it must be said very clearly that the idea of "massive nuclear retaliation" is completely unacceptable from an ethical point of view. The doctrine of retaliation, performed on a massive scale, violates not only the principles of common human decency and common sense, but also the ethical principles of every major religion. Retaliation is especially contrary to the central commandment of Christianity which tells us to love our neighbor, even if he or she is far away from us, belonging to a different ethnic or political group, and even if our distant neighbor has seriously injured us. This principle has a fundamental place not only in Christianity but also in all other major religions. "Massive retaliation" completely violates these very central ethical principles, which are not only clearly stated and fundamental but also very practical, since they prevent escalatory cycles of revenge and counter-revenge.

Contrast Christian ethics with estimates of the number of deaths that would follow a US nuclear strike against Russia: Several hundred million deaths. These horrifying estimates shock us not only because of the enormous magnitude of the expected mortality, but also because the victims would include people of every kind: women, men, old people, children and infants, completely irrespective of any degree of guilt that they might have. As a result of such an attack, many millions of people in neutral countries would also die. This type of killing has to be classified as genocide.

When a suspected criminal is tried for a wrongdoing, great efforts are devoted to clarifying the question of guilt or innocence. Punishment only follows if guilt can be proved beyond any reasonable doubt. Contrast this with the totally indiscriminate mass slaughter that results from a nuclear attack!

It might be objected that disregard for the guilt or innocence of victims is a universal characteristic of modern war, since statistics show that, with time, a larger and larger percentage of the victims have been civilians, and especially children. For example, the air attacks on Coventry during World War II, or the fire bombings of Dresden and Tokyo, produced massive casualties which involved all segments of the population with complete disregard for the question of guilt or innocence. The answer, I think, is that modern war has become generally unacceptable from an ethical point of view, and this unacceptability is epitomized in nuclear weapons.

The enormous and indiscriminate destruction produced by nuclear weapons formed the background for an historic 1996 decision by the International Court of Justice in the Hague. In response to questions put to it by WHO and the UN General Assembly, the Court ruled that "the threat and use of nuclear weapons would generally be contrary to the rules of international law applicable in armed conflict, and particularly the principles and rules of Humanitarian law."

The only *possible* exception to this general rule might be "an extreme circumstance of self-defense, in which the very survival of a state would be at stake". But the Court refused to say that even in this extreme circumstance the threat or use of nuclear weapons



would be legal. It left the exceptional case undecided. In addition, the World Court added unanimously that "there exists an obligation to pursue in good faith *and bring to a conclusion* negotiations leading to nuclear disarmament in all its aspects under strict international control."

This landmark decision has been criticized by the nuclear weapon states as being decided "by a narrow margin", but the structuring of the vote made the margin seem more narrow than it actually was. Seven judges voted against Paragraph 2E of the decision (the paragraph which states that the threat or use of nuclear weapons would be generally illegal, but which mentions as a possible exception the case where a nation might be defending itself from an attack that threatened its very existence.) Seven judges voted for the paragraph, with the President of the Court, Muhammad Bedjaoui of Algeria casting the deciding vote. Thus the Court adopted it, seemingly by a narrow margin. But three of the judges who voted against 2E did so because they believed that no possible exception should be mentioned! Thus, if the vote had been slightly differently structured, the result would have be ten to four.

Of the remaining four judges who cast dissenting votes, three represented nuclear weapons states, while the fourth thought that the Court ought not to have accepted the questions from WHO and the UN. However Judge Schwebel from the United States, who voted against Paragraph 2E, nevertheless added, in a separate opinion, "It cannot be accepted that the use of nuclear weapons on a scale which would - or could - result in the deaths of many millions in indiscriminate inferno and by far-reaching fallout, have pernicious effects in space and time, and render uninhabitable much of the earth, could be lawful." Judge Higgins from the UK, the first woman judge in the history of the Court, had problems with the word "generally" in Paragraph 2E and therefore voted against it, but she thought that a more profound analysis might have led the Court to conclude in favor of illegality in all circumstances. Judge Fleischhauer of Germany said in his separate opinion, "The nuclear weapon is, in many ways, the negation of the humanitarian considerations underlying the law applicable in armed conflict and the principle of neutrality. The nuclear weapon cannot distinguish between civilian and military targets. It causes immeasurable suffering. The radiation released by it is unable to respect the territorial integrity of neutral States."

President Bedjaoui, summarizing the majority opinion, called nuclear weapons "the ultimate evil", and said "By its nature, the nuclear weapon, this blind weapon, destabilizes Humanitarian law, the law of discrimination in the use of weapons... The ultimate aim of every action in the field of nuclear arms will always be nuclear disarmament, an aim which is no longer utopian and which all have a duty to pursue more actively than ever."

Thus the concept of nuclear deterrence is not only unacceptable from the standpoint of ethics; it is also contrary to international law. The World Court's 1996 advisory Opinion unquestionably also represents the opinion of the majority of the world's peoples. Although no formal plebiscite has been taken, the votes in numerous resolutions of the UN General Assembly speak very clearly on this question. For example the New Agenda Resolution (53/77Y) was adopted by the General Assembly on 4 December 1998 by a massively affirmative vote, in which only 18 out of the 170 member states voted against the resolution.⁵ The New Agenda Resolution proposes numerous practical steps towards complete nuclear disarmament, and it calls on the Nuclear-Weapon States "to demonstrate an unequivocal commitment to the speedy and total elimination of their nuclear weapons and without delay to pursue in good faith and bring to a conclusion negotiations leading to the elimination of these weapons, thereby fulfilling their obligations under Article VI of the Treaty on the Non-Proliferation of Nuclear Weapons (NPT)". Thus, in addition to being ethically unacceptable and contrary to international law, nuclear weapons also contrary to the principles of democracy.

Having said these important things, we can now turn to some of the other defects in the concept of nuclear deterrence. One important defect is that nuclear war may occur through accident or miscalculation - through technical defects or human failings. This possibility is made greater by the fact that despite the end of the Cold War, thousands of missiles carrying nuclear warheads are still kept on a "hair-trigger" state of alert with a quasi-automatic reaction time measured in minutes. There is a constant danger that a nuclear war will be triggered by error in evaluating the signal on a radar screen. For example, the BBC reported recently that a group of scientists and military leaders are worried that a small asteroid entering the earths atmosphere and exploding could trigger a nuclear war if mistaken for a missile strike.

A number of prominent political and military figures (many of whom have ample knowledge of the system of deterrence, having been part of it) have expressed concern about the danger of accidental nuclear war. Colin S. Grey⁶ expressed this concern as follows: "The problem, indeed the enduring problem, is that we are resting our future upon a nuclear

⁵Of the 18 countries that voted against the New Agenda resolution, 10 were Eastern European countries hoping for acceptance into NATO, whose votes seem to have been traded for increased probability of acceptance.

⁶Chairman, National Institute for Public Policy

deterrence system concerning which we cannot tolerate even a single malfunction." General Curtis E. LeMay⁷ has written, "In my opinion a general war will grow through a series of political miscalculations and accidents rather than through any deliberate attack by either side." Bruce G. Blair⁸ has remarked that "It is obvious that the rushed nature of the process, from warning to decision to action, risks causing a catastrophic mistake."... "This system is an accident waiting to happen."

"But nobody can predict that the fatal accident or unauthorized act will never happen", Fred Ikle of the Rand Corporation has written, "Given the huge and far-flung missile forces, ready to be launched from land and sea on on both sides, the scope for disaster by accident is immense... In a matter of seconds - through technical accident or human failure - mutual deterrence might thus collapse."

Another serious failure of the concept of nuclear deterrence is that it does not take into account the possibility that atomic bombs may be used by terrorists. Indeed, the threat of nuclear terrorism has today become one of the most pressing dangers that the world faces, a danger that is particularly acute in the United States.

Since 1945, more than 3,000 metric tons (3,000,000 kilograms) of highly enriched uranium and plutonium have been produced - enough for several hundred thousand nuclear weapons. Of this, roughly a million kilograms are in Russia, inadequately guarded, in establishments where the technicians are poorly paid and vulnerable to the temptations of bribery. There is a continuing danger that these fissile materials will fall into the hands of terrorists, or organized criminals, or irresponsible governments. Also, an extensive black market for fissile materials, nuclear weapons components etc. has recently been revealed in connection with the confessions of Pakistan's bomb-maker, Dr. A.Q. Khan. Furthermore, if Pakistan's less-than-stable government should be overthrown, complete nuclear weapons could fall into the hands of terrorists.

On November 3, 2003, Mohamed ElBaradei, Director General of the International Atomic Energy Agency, made a speech to the United Nations in which he called for "limiting the processing of weapons-usable material (separated plutonium and high enriched uranium) in civilian nuclear programmes - as well as the production of new material through reprocessing and enrichment - by agreeing to restrict these operations to facilities exclusively under international control." It is almost incredible, considering the dangers of nuclear proliferation and nuclear terrorism, that such restrictions were not imposed long ago. Nuclear reactors used for "peaceful" purposes unfortunately also generate fissionable isotopes of plutonium, neptunium and americium. Thus all nuclear reactors must be regarded as ambiguous in function, and all must be put under strict international control. One might ask, in fact, whether globally widespread use of nuclear energy is worth the danger that it entails.

The Italian nuclear physicist Francesco Calogero, who has studied the matter closely, believes that terrorists could easily construct a simple gun-type nuclear bomb if they were in possession of a critical mass of highly enriched uranium. In such a simple atomic bomb,

⁷Founder and former Commander in Chief of the United States Strategic Air Command ⁸Brookings Institute

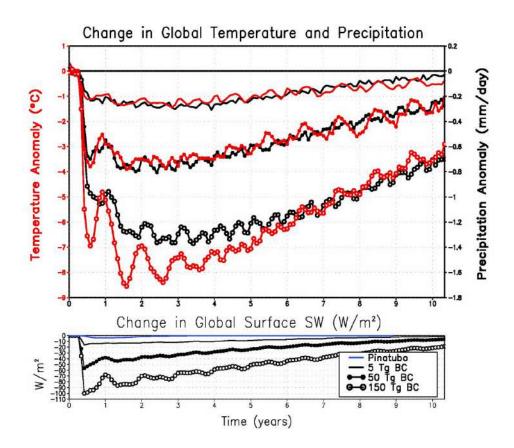


Figure 3.16: Recent studies by atmospheric scientists have shown that the smoke from burning cities produced by even a limited nuclear war would have a devastating effect on global agriculture. The studies show that the smoke would rise to the stratosphere, where it would spread globally and remain for a decade, blocking sunlight and destroying the ozone layer. Because of the devastating effect on global agriculture, darkness from even a small nuclear war (e.g. between India and Pakistan) would result in an estimated billion deaths from famine. Nuclear darkness resulting from a large-scale war involving all of the nuclear weapons that are now on high alert status would destroy all agriculture on earth for a period of ten years, and almost all humans would die of starvation. (See O. Toon , A. Robock, and R. Turco, "The Environmental Consequences of Nuclear War", Physics Today, vol. 61, No. 12, 2008, p. 37-42).

two grapefruit-sized subcritical portions of HEU are placed at opposite ends of the barrel of an artillery piece and are driven together by means of a conventional explosive. Prof. Calogero estimates that the fatalities produced by the explosion of such a device in the center of a large city could exceed 100,000.

We must remember the remark of U.N. Secretary General Kofi Annan after the 9/11/2001 attacks on the World Trade Center. He said, "*This time* it was not a nuclear explosion". The meaning of his remark is clear: If the world does not take strong steps to eliminate fissionable materials and nuclear weapons, it will only be a matter of time before they will be used in terrorist attacks on major cities. Neither terrorists nor organized criminals can be deterred by the threat of nuclear retaliation, since they have no territory against which such retaliation could be directed. They blend invisibly into the general population. Nor can a "missile defense system" prevent terrorists from using nuclear weapons, since the weapons can be brought into a port in any one of the hundreds of thousands of containers that enter on ships each year, a number far too large to be checked exhaustively.

Today we must give special weight to the danger that a catastrophic nuclear war may occur through the mental instability of a political leader or an error of judgement, since we now are living with Donald Trump and Kim Jong-un. In the words of ICAN's Executive Director Beatrice Finn, the end of human civilization and much of the biosphere is "only a tantrum away". Donald Trump has repeatedly expressed his desire for more "usable" nuclear weapons. and if nuclear weapons are ever used, there is a strong danger of escalation to a full-scale thermonuclear war.

Another problem with the concept of nuclear deterrence is that even if the danger that a catastrophic nuclear war will occur in any given year is small, over a long period of time the danger builds up into a certainty. If the dangers for any given year are 1%, 2% or 3%, the probabilities of are survival until 2100 are respectively 43%, 18% and 8%. If the period for which we must survive is extended to the year 2200, the chances of survival in the three cases are respectively .16%, .025%, and .0039%.

In this perilous situation, the only logical thing for the world to do is to get rid of both fissile materials and nuclear weapons as rapidly as possible. We must acknowledge that the idea of nuclear deterrence is a dangerous fallacy, and acknowledge that the development of military systems based on nuclear weapons has been a terrible mistake, a false step that needs to be reversed. If the most prestigious of the nuclear weapons states can sincerely acknowledge their mistakes and begin to reverse them, nuclear weapons will seem less glamorous to countries like India, Pakistan, North Korea and Iran, where they now are symbols of national pride and modernism.

Civilians have for too long played the role of passive targets, hostages in the power struggles of politicians. It is time for civil society to make its will felt. If our leaders continue to enthusiastically support the institution of war, if they will not abolish nuclear weapons, then let us have new leaders.

3.8 Global famine produced by nuclear war

The danger of a catastrophic nuclear war casts a dark shadow over the future of our species. It also casts a very black shadow over the future of the global environment. The environmental consequences of a massive exchange of nuclear weapons have been treated in a number of studies by meteorologists and other experts from both East and West. They predict that a large-scale use of nuclear weapons would result in fire storms with very high winds and high temperatures, which would burn a large proportion of the wild land fuels in the affected nations. The resulting smoke and dust would block out sunlight for a period of many months, at first only in the northern hemisphere but later also in the southern hemisphere.

Temperatures in many places would fall far below freezing, and much of the earth's plant life would be killed. Animals and humans would then die of starvation. The nuclear winter effect was first discovered as a result of the Mariner 9 spacecraft exploration of Mars in 1971. The spacecraft arrived in the middle of an enormous dust-storm on Mars, and measured a large temperature drop at the surface of the planet, accompanied by a heating of the upper atmosphere. These measurements allowed scientists to check their theoretical models for predicting the effect of dust and other pollutants distributed in planetary atmospheres.

Using experience gained from the studies of Mars, R.P. Turco, O.B. Toon, T. Ackerman, J.B. Pollack and C. Sagan made a computer study of the climatic effects of the smoke and dust that would result from a large-scale nuclear war. This early research project is sometimes called the TTAPS Study, after the initials of the authors.

In April 1983, a special meeting was held in Cambridge, Massachusetts, where the results of the TTAPS Study and other independent studies of the nuclear winter effect were discussed by more than 100 experts. Their conclusions were presented at a forum in Washington, D.C., the following December, under the chairmanship of U.S. Senators Kennedy and Hatfield. The numerous independent studies of the nuclear winter effect all agreed of the following main predictions:

High-yield nuclear weapons exploded near the earth's surface would put large amounts of dust into the upper atmosphere. Nuclear weapons exploded over cities, forests, oilfields and refineries would produce fire storms of the type experienced in Dresden and Hamburg after incendiary bombings during the Second World War. The combination of high-altitude dust and lower altitude soot would prevent sunlight from reaching the earth's surface, and the degree of obscuration would be extremely high for a wide range of scenarios.

A baseline scenario used by the TTAPS study assumes a 5,000-megaton nuclear exchange, but the threshold for triggering the nuclear winter effect is believed to be much lower than that. After such an exchange, the screening effect of pollutants in the atmosphere might be so great that, in the northern and middle latitudes, the sunlight reaching the earth would be only 1% of ordinary sunlight on a clear day, and this effect would persist for many months. As a result, the upper layers in the atmosphere might rise in temperature by as much as 100 °C, while the surface temperatures would fall, perhaps by as much a 50 °C.

The temperature inversion produced in this way would lead to superstability, a condition in which the normal mixing of atmospheric layers is suppressed. The hydrological cycle (which normally takes moist air from the oceans to a higher and cooler level, where the moisture condenses as rain) would be strongly suppressed. Severe droughts would thus take place over continental land masses. The normal cleansing action of rain would be absent in the atmosphere, an effect which would prolong the nuclear winter.

In the northern hemisphere, forests would die because of lack of sunlight, extreme cold, and drought. Although the temperature drop in the southern hemisphere would be less severe, it might still be sufficient to kill a large portion of the tropical forests, which normally help to renew the earth's oxygen.

The oxygen content of the atmosphere would then fall dangerously, while the concentration of carbon dioxide and oxides of nitrogen produced by firestorms would remain high. The oxides of nitrogen would ultimately diffuse to the upper atmosphere, where they would destroy the ozone layer.

Thus, even when the sunlight returned after an absence of many months, it would be sunlight containing a large proportion of the ultraviolet frequencies which are normally absorbed by the ozone in the stratosphere, and therefore a type of light dangerous to life. Finally, after being so severely disturbed, there is no guarantee that the global climate would return to its normal equilibrium.

Even a nuclear war below the threshold of nuclear winter might have climatic effects very damaging to human life. Professor Paul Ehrlich, of Stanford University, has expressed this in the following words:

"...A smaller war, which set off fewer fires and put less dust into the atmosphere, could easily depress temperatures enough to essentially cancel grain production in the northern hemisphere. That in itself would be the greatest catastrophe ever delivered upon Homo Sapiens, just that one thing, not worrying about prompt effects. Thus even below the threshold, one cannot think of survival of a nuclear war as just being able to stand up after the bomb has gone off."⁹

http://www.commondreams.org/views/2015/08/06/hiroshima-and-nagasaki-remembering-power

http://human-wrongs-watch.net/2015/07/22/israel-iran-and-the-nuclear-non-proliferation-treaty/

http://www.cadmusjournal.org/article/issue-4/flaws-concept-nuclear-deterrance

 $^{^{9}} http://www.voanews.com/content/pope-francis-calls-for-nuclear-weapons-ban/2909357.html http://www.cadmusjournal.org/article/issue-4/flaws-concept-nuclear-deterrence$

http://www.countercurrents.org/avery300713.htm

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http://www.commondreams.org/news/2015/08/06/70-years-after-bombing-hiroshima-calls-abolish-nuclear-weapons

http://www.informationclearinghouse.info/article42488.htm

http://www.informationclearinghouse.info/article42492.htm

http://human-wrongs-watch.net/2015/06/25/militarisms-hostages/

http://human-wrongs-watch.net/2015/05/24/the-path-to-zero-dialogues-on-nuclear-dangers-by-richard-falk-and-david-krieger/

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A 2012 report published by International Physicians for the Prevention of Nuclear War states that even a small local nuclear war between India and Pakistan would put two billion people at risk of starvation.

3.9 Dangers of nuclear power generation

The Chernobyl disaster

The dangers of nuclear power generation are exemplified by the Chernobyl disaster: On the 26th of April, 1986, during the small hours of the morning, the staff of the Chernobyl nuclear reactor in Ukraine turned off several safety systems in order to perform a test. The result was a core meltdown in Reactor 4, causing a chemical explosion that blew off the reactor's 1,000-ton steel and concrete lid. 190 tons of highly radioactive uranium and graphite were hurled into the atmosphere. The resulting radioactive fallout was 200 times greater than that caused by the nuclear bombs that destroyed Hiroshima and Nagasaki. The radioactive cloud spread over Belarus, Ukraine, Russia, Finland, Sweden and Eastern Europe, exposing the populations of these regions to levels of radiation 100 times the normal background. Ultimately, the radioactive cloud reached as far as Greenland and parts of Asia.

The exact number of casualties resulting from the Chernobyl meltdown is a matter of controversy, but according to a United Nations report, as many as 9 million people have been adversely affected by the disaster. Since 1986, the rate of thyroid cancer in affected areas has increased ten-fold. An area of 155,000 square kilometers (almost half the size of Italy) in Belarus, Ukraine and Russia is still severely contaminated. Even as far away as Wales, hundreds of farms are still under restrictions because of sheep eating radioactive grass.

Public opinion turned against nuclear power generation as a result of the Chernobyl disaster. Had the disaster taken place in Western Europe or North America, its effect on public opinion would have been still greater. Nevertheless, because of the current energy crisis, and because of worries about global warming, a number of people are arguing that nuclear energy should be given a second chance. The counter-argument is that a large

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http://www.informationclearinghouse.info/article42580.htm

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http://human-wrongs-watch.net/2015/08/06/us-unleashing-of-atomic-weapons-against-civilian-

http://human-wrongs-watch.net/2015/08/06/hiroshima-and-nagasaki-remembering-the-power-of-peace/

http://human-wrongs-watch.net/2015/08/04/atomic-bombing-hear-the-story-setsuko-thurlow/linear-the

http://human-wrongs-watch.net/2015/08/04/atomic-bombing-hear-the-story-yasuaki-yamashita/2015/08/04/2015/08/04/2015/08/04/2015/08/04/2015/08/04/2015/08/04/2015/08/04/2015/08/04/2015/08/04/2015/08/04/2015/08/04/2015/08/04/04/2015/08/04/2015/08/04/2015/08/04/04/2015/08/04/201

http://human-wrongs-watch.net/2015/08/03/why-nuclear-weapons/

increase in the share of nuclear power in the total spectrum of energy production would have little effect on climate change but it would involve unacceptable dangers, not only dangers of accidents and dangers associated with radioactive waste disposal, but above all, dangers of proliferation of nuclear weapons.

Of the two bombs that destroyed Hiroshima and Nagasaki, one made use of the rare isotope of uranium, U-235, while the other used plutonium. Both of these materials can be made by a nation with a nuclear power generation program.

Reactors and nuclear weapons

Uranium has atomic number 92, i.e., a neutral uranium atom has a nucleus containing 92 positively-charged protons, around which 92 negatively-charged electrons circle. All of the isotopes of uranium have the same number of protons and electrons, and hence the same chemical properties, but they differ in the number of neutrons in their nuclei. For example, the nucleus of U-235 has 143 neutrons, while that of U-238 has 146. Notice that 92+143=235, while 92+146=238. The number written after the name of an element to specify a particular isotope is the number of neutrons plus the number of protons. This is called the "nucleon number", and the weight of an isotope is roughly proportional to it. This means that U-238 is slightly heavier than U-235. If the two isotopes are to be separated, difficult physical methods dependent on mass must be used, since their chemical properties are identical. In natural uranium, the amount of the rare isotope U-235 is only 0.7 percent.

A paper published in 1939 by Niels Bohr and John A. Wheeler indicated that it was the rare isotope of uranium, U-235, that undergoes fission. A bomb could be constructed, they pointed out, if enough highly enriched U-235 could be isolated from the more common isotope, U-238 Calculations later performed in England by Otto Frisch and Rudolf Peierls showed that the "critical mass" of highly enriched uranium needed is quite small: only a few kilograms.

The Bohr-Wheeler theory also predicted that an isotope of plutonium, Pu-239, should be just as fissionable as U-235¹⁰. Instead of trying to separate the rare isotope, U-235, from the common isotope, U-238, physicists could just operate a nuclear reactor until a sufficient amount of Pu-239 accumulated, and then separate it out by ordinary chemical means.

Thus in 1942, when Enrico Fermi and his coworkers at the University of Chicago produced the world's first controlled chain reaction within a pile of cans containing ordinary (nonenriched) uranium powder, separated by blocks of very pure graphite, the chainreacting pile had a double significance: It represented a new source of energy for mankind,

¹⁰Both U-235 and Pu-239 have odd nucleon numbers. When U-235 absorbs a neutron, it becomes U-236, while when Pu-239 absorbs a neutron it becomes Pu-240. In other words, absorption of a neutron converts both these species to nuclei with even nucleon numbers. According to the Bohr-Wheeler theory, nuclei with even nucleon numbers are especially tightly-bound. Thus absorption of a neutron converts U-235 to a highly-excited state of U-236, while Pu-239 is similarly converted to a highly excited state of Pu-240. The excitation energy distorts the nuclei to such an extent that fission becomes possible.

but it also had a sinister meaning. It represented an easy path to nuclear weapons, since one of the by-products of the reaction was a fissionable isotope of plutonium, Pu-239. The bomb dropped on Hiroshima in 1945 used U-235, while the Nagasaki bomb used Pu-239.

By reprocessing spent nuclear fuel rods, using ordinary chemical means, a nation with a power reactor can obtain weapons-usable Pu-239. Even when such reprocessing is performed under international control, the uncertainty as to the amount of Pu-239 obtained is large enough so that the operation might superficially seem to conform to regulations while still supplying enough Pu-239 to make many bombs.

The enrichment of uranium¹¹ is also linked to reactor use. Many reactors of modern design make use of low enriched uranium (LEU) as a fuel. Nations operating such a reactor may claim that they need a program for uranium enrichment in order to produce LEU for fuel rods. However, by operating their ultracentrifuges a little longer, they can easily produce highly enriched uranium (HEU), i.e., uranium containing a high percentage of the rare isotope U-235, and therefore usable in weapons.

Known reserves of uranium are only sufficient for the generation of 8×10^{20} joules of electrical energy ¹², i.e., about 25 TWy. It is sometimes argued that a larger amount of electricity could be obtained from the same amount of uranium through the use of fast breeder reactors, but this would involve totally unacceptable proliferation risks. In fast breeder reactors, the fuel rods consist of highly enriched uranium. Around the core, is an envelope of natural uranium. The flux of fast neutrons from the core is sufficient to convert a part of the U-238 in the envelope into Pu-239, a fissionable isotope of plutonium.

Fast breeder reactors are prohibitively dangerous from the standpoint of nuclear proliferation because both the highly enriched uranium from the fuel rods and the Pu-239 from the envelope are directly weapons-usable. It would be impossible, from the standpoint of equity, to maintain that some nations have the right to use fast breeder reactors, while others do not. If all nations used fast breeder reactors, the number of nuclear weapons states would increase drastically.

It is interesting to review the way in which Israel, South Africa, Pakistan, India and North Korea¹³ obtained their nuclear weapons, since in all these cases the weapons were constructed under the guise of "atoms for peace", a phrase that future generations may someday regard as being tragically self-contradictory.

Israel began producing nuclear weapons in the late 1960's (with the help of a "peaceful" nuclear reactor provided by France, and with the tacit approval of the United States) and the country is now believed to possess 100-150 of them, including neutron bombs. Israel's policy is one of visibly possessing nuclear weapons while denying their existence.

South Africa, with the help of Israel and France, also weaponized its civil nuclear program, and it tested nuclear weapons in the Indian Ocean in 1979. In 1991 however, South Africa destroyed its nuclear weapons and signed the NPT.

¹¹i.e. production of uranium with a higher percentage of U-235 than is found in natural uranium

¹²Craig, J.R., Vaugn, D.J. and Skinner, B.J., *Resources of the Earth: Origin, Use and Environmental Impact, Third Edition*, page 210.

¹³Israel, India and Pakistan have refused to sign the Nuclear Non-Proliferation Treaty, and North Korea, after signing the NPT, withdrew from it in 2003.

India produced what it described as a "peaceful nuclear explosion" in 1974. By 1989 Indian scientists were making efforts to purify the lithium-6 isotope, a key component of the much more powerful thermonuclear bombs. In 1998, India conducted underground tests of nuclear weapons, and is now believed to have roughly 60 warheads, constructed from Pu-239 produced in "peaceful" reactors.

Pakistan's efforts to obtain nuclear weapons were spurred by India's 1974 "peaceful nuclear explosion". As early as 1970, the laboratory of Dr. Abdul Qadeer Khan, (a metallurgist who was to become Pakistan's leading nuclear bomb maker) had been able to obtain from a Dutch firm the high-speed ultracentrifuges needed for uranium enrichment. With unlimited financial support and freedom from auditing requirements, Dr. Khan purchased restricted items needed for nuclear weapon construction from companies in Europe and the United States. In the process, Dr. Khan became an extremely wealthy man. With additional help from China, Pakistan was ready to test five nuclear weapons in 1998. The Indian and Pakistani nuclear bomb tests, conducted in rapid succession, presented the world with the danger that these devastating weapons would be used in the conflict over Kashmir. Indeed, Pakistan announced that if a war broke out using conventional weapons, Pakistan's nuclear weapons would be used "at an early stage".

In Pakistan, Dr. A.Q. Khan became a great national hero. He was presented as the person who had saved Pakistan from attack by India by creating Pakistan's own nuclear weapons. In a Washington Post article¹⁴ Pervez Hoodbhoy wrote: "Nuclear nationalism was the order of the day as governments vigorously promoted the bomb as the symbol of Pakistan's high scientific achievement and self-respect..." Similar manifestations of nuclear nationalism could also be seen in India after India's 1998 bomb tests.

Early in 2004, it was revealed that Dr. Khan had for years been selling nuclear secrets and equipment to Libya, Iran and North Korea, and that he had contacts with Al-Qaeda. However, observers considered that it was unlikely that Khan would be tried, since a trial might implicate Pakistan's army as well as two of its former prime ministers.

Recent assassination attempts directed at Pakistan's President, Pervez Musharraf, emphasize the precariousness of Pakistan's government. There a danger that it may be overthrown, and that the revolutionists would give Pakistan's nuclear weapons to a subnational organization. This type of danger is a general one associated with nuclear proliferation. As more and more countries obtain nuclear weapons, it becomes increasingly likely that one of them will undergo a revolution, during the course of which nuclear weapons will fall into the hands of criminals or terrorists.

If nuclear reactors become the standard means for electricity generation as the result of a future energy crisis, the number of nations possessing nuclear weapons might ultimately be as high as 40. If this should happen, then over a long period of time the chance that one or another of these nations would undergo a revolution during which the weapons would fall into the hands of a subnational group would gradually grow into a certainty.

There is also a possibility that poorly-guarded fissionable material could fall into the hands of subnational groups, who would then succeed in constructing their own nuclear

¹⁴1 February, 2004

weapons. Given a critical mass of highly-enriched uranium, a terrorist group, or an organized criminal (Mafia) group, could easily construct a crude gun-type nuclear explosive device. Pu-239 is more difficult to use since it is highly radioactive, but the physicist Frank Barnaby believes that a subnational group could nevertheless construct a crude nuclear bomb (of the Nagasaki type) from this material.

We must remember the remark of U.N. Secretary General Kofi Annan after the 9/11/2001 attacks on the World Trade Center. He said, "*This time* it was not a nuclear explosion". The meaning of his remark is clear: If the world does not take strong steps to eliminate fissionable materials and nuclear weapons, it will only be a matter of time before they will be used in terrorist attacks on major cities, or by organized criminals for the purpose of extortion. Neither terrorists nor organized criminals can be deterred by the threat of nuclear retaliation, since they have no territory against which such retaliation could be directed. They blend invisibly into the general population. Nor can a "missile defense system" prevent criminals or terrorists from using nuclear weapons, since the weapons can be brought into a port in any one of the hundreds of thousands of containers that enter on ships each year, a number far too large to be checked exhaustively.

Finally we must remember that if the number of nations possessing nuclear weapons becomes very large, there will be a greatly increased chance that these weapons will be used in conflicts between nations, either by accident or through irresponsible political decisions.

On November 3, 2003, Mohamed ElBaradei, Director General of the International Atomic Energy Agency, made a speech to the United Nations in which he called for "limiting the processing of weapons-usable material (separated plutonium and high enriched uranium) in civilian nuclear programs - as well as the production of new material through reprocessing and enrichment - by agreeing to restrict these operations to facilities exclusively under international control." It is almost incredible, considering the dangers of nuclear proliferation and nuclear terrorism, that such restrictions were not imposed long ago.

From the facts that we have been reviewing, we can conclude that if nuclear power generation becomes widespread during a future energy crisis, and if equally widespread proliferation of nuclear weapons is to be avoided, the powers and budget of the IAEA will have to be greatly increased. All enrichment of uranium and Reprocessing fuel rods throughout the world will have to be placed be under direct international control, as has been emphasized by Mohamed ElBaradei. Because this will need to be done with fairness, such regulations will have to hold both in countries that at present have nuclear weapons and in countries that do not. It has been proposed that there should be an international fuel rod bank, to supply new fuel rods and reprocess spent ones. In addition to this excellent proposal, one might also consider a system where all power generation reactors and all research reactors would be staffed by the IAEA.

Nuclear reactors used for "peaceful" purposes unfortunately also generate fissionable isotopes of not only of plutonium, but also of neptunium and americium. Thus all nuclear reactors must be regarded as ambiguous in function, and all must be put under strict international control. One must ask whether globally widespread use of nuclear energy is worth the danger that it entails. Let us now examine the question of whether nuclear power generation would appreciably help to prevent global warming. The fraction of nuclear power in the present energy generation spectrum is at present approximately 1/16. Nuclear energy is used primarily for electricity generation. Thus increasing the nuclear fraction would not affect the consumption of fossil fuels used directly in industry, transportation, in commerce, and in the residential sector. Coal is still a very inexpensive fuel, and an increase in nuclear power generation would do little to prevent it from being burned. Thus besides being prohibitively dangerous, and besides being unsustainable in the long run (because of finite stocks of uranium and thorium), the large-scale use of nuclear power cannot be considered to be a solution to the problem of anthropogenic climate change.

Optimists point to the possibility of using fusion of light elements, such as hydrogen, to generate power. However, although this can be done on a very small scale (and at great expense) in laboratory experiments, the practical generation of energy by means of thermonuclear reactions remains a mirage rather than a realistic prospect on which planners can rely. The reason for this is the enormous temperature required to produce thermonuclear reactions. This temperature is comparable to that existing in the interior of the sun, and it is sufficient to melt any ordinary container. Elaborate "magnetic bottles" have been constructed to contain thermonuclear reactions, and these have been used in successful very small scale experiments. However, despite 50 years of heavily-financed research, there has been absolutely no success in producing thermonuclear energy on a large scale, or at anything remotely approaching commercially competitive prices.

3.10 Military-industrial complexes today

"We're going to take out seven countries in five years"

In an interview with Amy Goodman¹⁵, retired 4-star General Wesley Clark said: "About ten days after 9/11, I went through the Pentagon and I saw Secretary Rumsfeld and Deputy Secretary Wolfowitz. I went downstairs just to say hello to some of the people on the Joint Staff who used to work for me, any one of the generals called me in. He said, "Sir, you've got to come in and talk to me a second." I said, "Well, you're too busy." He said, "No, no." He says, "We've made the decision we're going to war with Iraq." This was on or about the 20th of September. I said, "We're going to war with Iraq? Why?" He said, "I don't know." He said, "I guess they don't know what else to do." So I said, "Well, did they find some information connecting Saddam to al-Qaeda?" He said, "No, no." He says, "There's nothing new that way. They just made the decision to go to war with Iraq." He said, "I guess it's like we don't know what to do about terrorists, but we've got a good military and we can take down governments." And he said, "I guess if the only tool you have is a hammer, every problem has to look like a nail.

So I came back to see him a few weeks later, and by that time we were bombing in Afghanistan. I said, "Are we still going to war with Iraq?" And he said, "Oh, it's worse

¹⁵https://genius.com/General-wesley-clark-seven-countries-in-five-years-annotated



Figure 3.17: General Wesley Clark

than that." He reached over on his desk. He picked up a piece of paper. And he said, "I just got this down from upstairs" - meaning the Secretary of Defense's office - "today." And he said, "This is a memo that describes how we're going to take out seven countries in five years, starting with Iraq, and then Syria, Lebanon, Libya, Somalia, Sudan and, finishing off, Iran." I said, "Is it classified?" He said, "Yes, sir." I said, "Well, don't show it to me." And I saw him a year or so ago, and I said, "You remember that?" He said, "Sir, I didn't show you that memo! I didn't show it to you!"

The global trade in light arms

An important poverty-generating factor in the developing countries is war - often civil war. The five permanent members of the U.N. Security Council are, ironically, the five largest exporters of small arms. Small arms have a long life. The weapons poured into Africa by both sides during the Cold War are still there, and they contribute to political chaos and civil wars that block development and cause enormous human suffering.

The United Nations website on Peace and Security through Disarmament states that "Small arms and light weapons destabilize regions; spark, fuel and prolong conflicts; obstruct relief programmes; undermine peace initiatives; exacerbate human rights abuses; hamper development; and foster a 'culture of violence'."

An estimated 639 million small arms and light weapons are in circulation worldwide,

one for every ten people. Approximately 300,000 people are killed every year by these weapons, many of them women and children.

Examples of endemic conflict

In several regions of Africa, long-lasting conflicts have prevented development and caused enormous human misery. These regions include Ethiopia, Eritiria, Somalia (Darfur), Chad, Zimbabwe and the Democratic Republic of Congo. In the Congo, the death toll reached 5.4 million in 2008, with most of the victims dying of disease and starvation, but with war as the root cause. In view of these statistics, the international community can be seen to have a strong responsibility to stop supplying small arms and ammunition to regions of conflict. There is absolutely no excuse for the large-scale manufacture and international sale of small arms that exists today.

The Wolfowitz Doctrine

The Wolfowitz Doctrine is the unofficial name given to the early version of the Defense Strategy for the 1990s: The Regional Defense Strategy report for the 1994-99 fiscal years. It was later released by then Secretary of Defense Dick Cheney in 1993. It brazenly advocates that America do everything in its power to retain its global hegemony and superpower status, including ensuring that Russia, China, Iran and other regional powers - but especially Russia - be prevented from attaining enough power to seriously challenge the US. In short, it's another US blueprint for total global supremacy.

There are many quotable passages from the Wolfowitz Doctrine. Here's one which sums up its aims:

"Our first objective is to prevent the re-emergence of a new rival, either on the territory of the former Soviet Union or elsewhere that poses a threat on the order of that posed formerly by the Soviet Union. This is a dominant consideration underlying the new regional defense strategy and requires that we endeavor to prevent any hostile power from dominating a region whose resources would, under consolidated control, be sufficient to generate global power. These regions include Western Europe, East Asia, the territory of the former Soviet Union, and Southwest Asia."

Similar motives guide US policy today. In February, 2018, US Secretary of Defense James Mattas said: "We will continue to prosecute the campaign against terrorists, but great-power competition - not terrorism - is now the primary focus of US national security."

Militarism in North Korea

The following states are now believed to currently possess nuclear weapons: The United states, Russia, The United Kingdom, France, China, India, Pakistan, North Korea and Israel. The way in which North Korea obtained its nuclear weapons is described by Wikipedia in the following paragraphs:

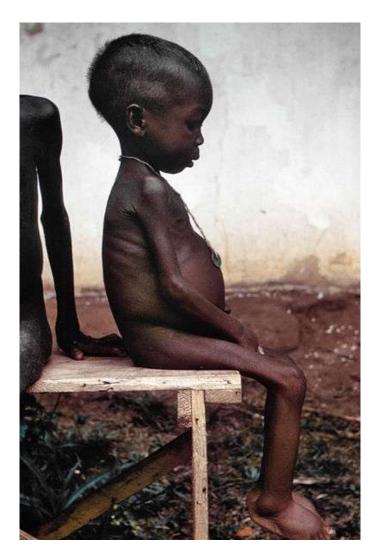


Figure 3.18: 40,000 children die each day from starvation or from poverty-related diseases. Meanwhile, the world spends more than \$1,700,000,000,000 each year on armaments.

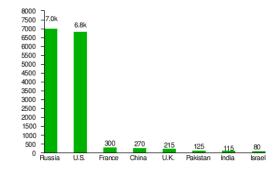


Figure 3.19: Countries by estimated nuclear warhead stockpiles according to the Federation of American scientists.

"The nuclear program can be traced back to about 1962, when North Korea committed itself to what it called 'all-fortressization', which was the beginning of the hyper-militarized North Korea of today. In 1963, North Korea asked the Soviet Union for help in developing nuclear weapons, but was refused. The Soviet Union agreed to help North Korea develop a peaceful nuclear energy program, including the training of nuclear scientists. Later, China, after its nuclear tests, similarly rejected North Korean requests for help with developing nuclear weapons.

"Soviet engineers took part in the construction of the Yongbyon Nuclear Scientific Research Center and began construction of an IRT-2000 research reactor in 1963, which became operational in 1965 and was upgraded to 8 MW in 1974. In 1979 North Korea indigenously began to build in Yongbyon a second research reactor, an ore processing plant and a fuel rod fabrication plant.Soviet engineers took part in the construction of the Yongbyon Nuclear Scientific Research Center, and began construction of an IRT-2000 research reactor in 1963, which became operational in 1965 and was upgraded to 8 MW in 1974. In 1979 North Korea indigenously began to build in Yongbyon a second research reactor in 1963, which became operational in 1965 and was upgraded to 8 MW in 1974. In 1979 North Korea indigenously began to build in Yongbyon a second research reactor, an ore processing plant and a fuel rod fabrication plant."

Thus like other new nuclear weapons states, North Korea obtained nuclear weapons by misuse of nuclear power generation facilities donated by other countries. In addition, North Korea spend a large fraction of its GDP on conventional armaments. Under the Songun policy, the Korean Peoples Army is the central institution of North Korean society. As of 2016, the Korean Peoples Army had 5,889,000 paramilitary personelle (25% of the population of North Korea) making it the largest paramilitary organization on earth.

Rank	Country	Annual Spending \$ Bn.	% of GDP
1	United State	611.2	3.3
2	China	215.7	1.9
3	Russia	69.2	5.3
4	Saudi Arabia	63.7	10
5	India	55.9	2.5
6	France	55.7	2.3
7	United Kingdom	48.3	1.9
8	Japan	46.1	1.0
9	Germany	41.1	1.2
10	South Korea	36.8	2.7
11	Italy	27.9	1.5
12	Australia	24.3	2.0

Table 3.1: SIPRI Military Expenditure Database, 2016

Rank	Company	Country	Annual Arms Sales \$ Mn.
1	Lockheed Martin	United States	40,830
2	Boeing	United States	29,510
3	Raytheon	United States	22,910
4	BAE Systems	United Kingdom	22.700
5	Northrop Grumman	United States	21,400
6	General Dynamics	United States	19,230
7	Airbus	European Union	12,520
8	L-3 Communications	United States	8,890
9	Leonardo-Finmeccanica	Italy	8,500
10	Thales Group	France	8,170
11	United Technologies Corporation	United States	6,870
12	Huntington Ingalls Industries	United States	6,720

Table 3.2: SIPRI List of arms manufacturers, 2016



Figure 3.20: North Korea's dictator, Kim Jong-un. The doctrine of nuclear deterrence rests on the assumption that political leaders will always act rationally, an assumption that seems very uncertain in the case of the U.S.-North Korean conflict.

The SIPRI Yearbook, 2017

Dan Smith of the Stockholm International Peace Research Institute (SIPRI) wrote the following Introduction to the organization's yearbook for 2017:

"An overall perspective on 2016 finds a balance between negative developments and the continued functioning of the international system. However, the year ended with clear grounds for concern that the balance sheet seemed to be tipping towards the negative amid growing unease about the durability of key parts of the international security architecture.

"Conflicts in the Middle East continued to generate humanitarian tragedies and largescale movement of refugees, and violent conflict continued in several other parts of the world, most notably Africa, Asia and to a lesser extent Eastern Europe. Develop- ments in North Korea's nuclear programme contributed to international political instability with potentially serious knock-on effects. On the positive side, the 2015 Paris Climate Agreement entered into force in November 2016, the 2015 Iran nuclear deal began implementation on time in early 2016 and the United Nations General Assembly adopted a resolution to start negotiations in 2017 on eliminating nuclear weapons. Progress was also made on work to monitor the unfolding implementation of the UN's Agenda 2030 for international social and economic development. A major contribution to the positive side of the balance sheet in 2016 was the peace agreement in Colombia.

"Nonetheless, virtually all the major global indicators for peace and security have moved in a negative direction: more military spending, increased arms trading, more violent conflicts and the continuing forward march of military technology.

"Existing multilateral and bilateral arms control agreements and processes are also under challenge-not least due to the deteriorating relationship between Russia and the United States-raising questions of global concern and potentially epochal scope. Were the great gains in peaceful relations since the end of the cold war now being reversed? Would the return of strategic competition between the major powers have negative implications for managing increased conflict risk? These uncertainties, combined with political developments in Europe and the USA- especially the vote by the United Kingdom to leave the European Union and the election of Donald J. Trump as US President-seemed to reveal a much decreased commitment to international institutions and a renewed emphasis in several key states on a narrowly defined national interest.

"The scale of the challenges facing humanity has been summed up in the proposal to adopt the label of 'the Anthropocene' for the current era, thus designating it as one in which human activity is the dominant influence on climate and the environment. It is disconcerting to note that such cooperation risks becoming more elusive than it has seemed for most of the time since the end of the cold war, at a time when it is more needed than ever. Experience has shown that international cooperation can work. But is the international cooperative urge as persistent as the problems it needs to address?"

3.11 A culture of violence

Links with the entertainment industry

Here are a few films that glorify war:

- Black Hawk Down
- Top Gun
- Behind Enemy Lines
- Red Dawn (1984)
- American Sniper
- Iron Eagle
- Pearl Harbor
- Act of Valor
- We Were Soldiers
- The Green Berets

Making a game of killing

The mass media are an important part of our educational system. Perhaps it is time to look more closely at the values that they are transmitting. In particular, we should perhaps look at computer games designed for young boys. They often give the strongest imaginable support to a culture of violence.

For example, a game entitled "Full Spectrum Warrior" was recently reviewed in a Danish newspaper. According to the reviewer, "...An almost perfect combination of graphics, sound, band design, and gameplay makes it seem exactly like the film Black Hawk Down - with the player as the main character. This is not just a coincidence, because the game is based on an army training program... Full Spectrum Warrior is an extremely intense experience, and despite the advanced possibilities, the controls are simple enough so that young children can play it... The player is completely drawn into the screen, and remains there until the end of the mission." The reviewer gave the game six stars (the maximum).



Figure 3.21: Tom Cruse in "Top Gun".



Figure 3.22: A culture of violence supports the Devil's Dynamo.

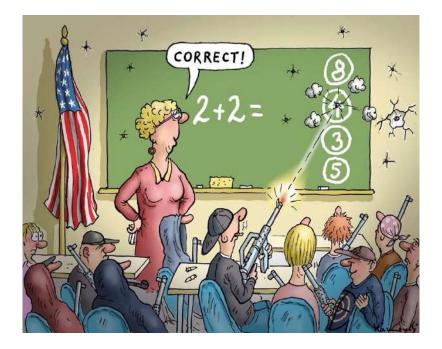


Figure 3.23: A culture of violence: In the United States the National Rifle Association has proposed guns in schools as the answer to the epidemic of school shootings.

Another genre of computer games has to do with building empires, ignoring the fact that imperialism is morally indefensible. For example, "Forge of Empires" is a browserbased strategy game. It is described as follows: "The game offers a single-player campaign for players to explore and conquer several provinces, gaining resources and new technology as they progress." Conquering countries for the sake of gaining their resources is an all-toofamiliar feature of the modern world. In the game "Forge of Empires", our young people are indoctrinated with the ethos of resource wars.

During his trial, the Norwegian mass-murderer Anders Behring Breivik described how he trained for his attack on young people on the Island of UtÃ, ya using the computer game "Call of Duty: Modern Warfare". The court also heard how he took what he called a "sabatical" for a year between the summers of 2006 and 2007. During this year, he played a game called "World of Warcraft" full-time, in the bedroom of his mother's Oslo flat, spending up to 16 hours a day using the game to distance himself from the human and moral significance of killing.

Is this not similar to the frame of mind of drone operators, sitting in comfort in their Nevada bunkers, distanced from the reality of killing? They are playing a computer game that kills targeted individuals and their families, in remote countries, by remote control. There is no need to look into the eyes of the victims. They are just abstract symbols in a computer game.

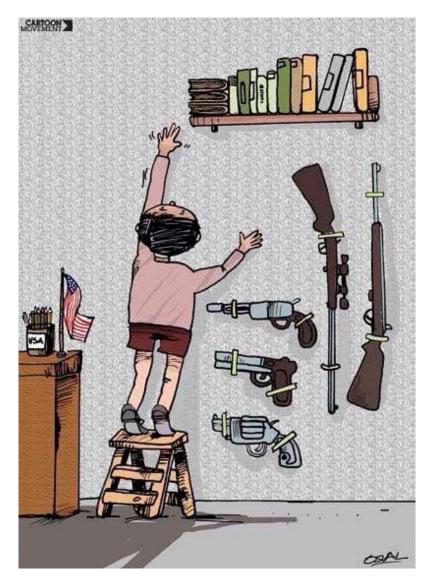


Figure 3.24: A culture of violence. Guns in schools?

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Chapter 4

THE THREATS AND COSTS OF WAR

4.1 The training of soldiers

Within individual countries, murder is rightly considered to be the worst of crimes. But the institution of war tries to convince us that if a soldier murders someone from another country, whom the politicians have designated as an "enemy", it is no longer a crime, no longer a violation of the common bonds of humanity. It is "heroic".

In their hearts, soldiers know that this is nonsense. Murder is always murder. The men, women and children who are supposed to be the "enemy", are just ordinary people, with whom the soldier really has no quarrel. Therefore when the training of soldiers wears off a little, so that they realize what they have done, they have to see themselves as murderers, and many commit suicide.

A recent article in the journal "Epidemiology" pointed out a startling statistic: for every American soldier killed in combat this year, 25 will commit suicide. The article also quotes the Department of Veterans Affairs, which says that 18 veterans commit suicide every day.

Obviously, the training of soldiers must overwrite fundamental ethical principles. This training must make a soldier abandon his or her individual conscience and sense of responsibility. It must turn the soldier from a compassionate human being into an automaton, a killing machine. How is this accomplished? Through erosion of of the soldier's self-respect. Through the endless repetition of senseless rituals where obedience is paramount and from which rational thought and conscience are banished.

In his book on fanaticism, The True Believer (1951), the American author Eric Hoffer gives the following description of the factors promoting self-sacrifice:

"To ripen a person for self-sacrifice, he must be stripped of his individual identity. He must cease to be George, Hans, Ivan or Tado - a human atom with an existence bounded by birth and death. The most drastic way to achieve this end is by the complete assimilation of the individual into a collective body. The fully assimilated individual does not see himself

and others as human beings. When asked who he is, his automatic response is that he is a German, a Russian, a Japanese, a Christian, a Muslim, a member of a certain tribe or family. He has no purpose, worth or destiny apart from his collective body, and as long as that body lives, he cannot really die. ..."

"The effacement of individual separateness must be thorough. In every act, however trivial, the individual must, by some ritual, associate himself with the congregation, the tribe, the party, etcetera. His joys and sorrows, his pride and confidence must spring from the fortunes and capacities of the group, rather than from his individual prospects or abilities. Above all, he must never feel alone. Though stranded on a desert island, he must feel that he is under the eyes of the group. To be cast out from the group must be equivalent to being cut off from life."

"This is undoubtedly a primitive state of being, and its most perfect examples are found among primitive tribes. Mass movements strive to approximate this primitive perfection, and we are not imagining things when the anti-individualist bias of contemporary mass movements strikes us as being a throwback to the primitive."

The conditioning of a soldier in a modern army follows the pattern described in Eric Hoffer's book. The soldier's training aims at abolishing his sense of individual separateness, individual responsibility, and moral judgment. It is filled with rituals, such as saluting, by which the soldier identifies with his tribe-like army group. His uniform also helps to strip him of his individual identity and to assimilate him into the group. The result of this psychological conditioning is that the soldier's mind reverts to a primitive state. He surrenders his moral responsibility, and when the politicians tell him to kill, he kills.

4.2 Killing civilians

Between 2 September and 5 September, 1807, the civilian population of Copenhagen was subjected to a bombardment by British military forces, without any declaration of war. The purpose of the bombardment was to induce terror in the population, and to thereby force the surrender of the Danish fleet, which the British feared might otherwise fall into the hands of Napoleon. It was one of the first occasions on which civilians were deliberately targeted in this manner.

Copenhagen was almost undefended, since the Danish army was positioned at the southern boundary of the country, ready to repel a possible attack by Napoleon's army. British troops and artillery were thus easily able to surround the city, while the British fleet occupied the harbor. On the first night of the bombardment, 5000 rounds were fired into the city, on the second night 2000, and on the third night 7000. New incendiary rockets developed by William Congreve were also used. More than 2000 civilians were killed by the bombardment, and about 30 percent of Copenhagen's buildings were destroyed. The bicentenary of this barbaric event might be an appropriate time to think about state-sponsored terror, in which innocent civilians are deliberately targeted.



The erosion of ethical principles during World War II

When Hitler invaded Poland in September, 1939, US President Franklin Delano Roosevelt appealed to Great Britain, France, and Germany to spare innocent civilians from terror bombing. "The ruthless bombing from the air of civilians in unfortified centers of population during the course of the hostilities", Roosevelt said (referring to the use of air bombardment during World War I) "...has sickened the hearts of every civilized man and woman, and has profoundly shocked the conscience of humanity." He urged "every Government which may be engaged in hostilities publicly to affirm its determination that its armed forces shall in no event, and under no circumstances, undertake the bombardment from the air of civilian populations or of unfortified cities."

Two weeks later, British Prime Minister Neville Chamberlain responded to Roosevelt's appeal with the words: "Whatever the lengths to which others may go, His Majesty's Government will never resort to the deliberate attack on women and children and other civilians for purposes of mere terrorism."

Much was destroyed during World War II, and among the casualties of the war were the ethical principles that Roosevelt and Chamberlain announced at its outset. At the time of Roosevelt and Chamberlain's declarations, terror bombing of civilians had already begun in the Far East. On 22 and 23 September, 1937, Japanese bombers attacked civilian populations in Nanjing and Canton. The attacks provoked widespread protests. The British Under Secretary of State for Foreign Affairs, Lord Cranborne, wrote: "Words cannot express the feelings of profound horror with which the news of these raids has been received by the whole civilized world. They are often directed against places far from the actual area of hostilities. The military objective, where it exists, seems to take a completely second place. The main object seems to be to inspire terror by the indiscriminate slaughter of civilians..."

On the 25th of September, 1939, Hitler's air force began a series of intense attacks on Warsaw. Civilian areas of the city, hospitals marked with the Red Cross symbol, and fleeing refugees all were targeted in a effort to force the surrender of the city through terror. On the 14th of May, 1940, Rotterdam was also devastated. Between the 7th of September 1940 and the 10th of May 1941, the German Luftwaffe carried out massive air attacks on targets in Britain. By May, 1941, 43,000 British civilians were killed and more than a million houses destroyed.

Although they were not the first to start it, by the end of the war the United States and Great Britain were bombing of civilians on a far greater scale than Japan and Germany had ever done. For example, on July 24-28, 1943, British and American bombers attacked Hamburg with an enormous incendiary raid whose official intention "the total destruction" of the city.

The result was a firestorm that did, if fact, lead to the total destruction of the city. One airman recalled, that "As far as I could see was one mass of fire. 'A sea of flame' has been the description, and that's an understatement. It was so bright that I could read the target maps and adjust the bomb-sight." Another pilot was "...amazed at the awe-inspiring sight of the target area. It seemed as though the whole of Hamburg was on fire from one end to the other and a huge column of smoke was towering well above us - and we were on 20,000 feet! It all seemed almost incredible and, when I realized that I was looking at a city with a population of two millions, or about that, it became almost frightening to think of what must be going on down there in Hamburg."

Below, in the burning city, temperatures reached 1400 degrees Fahrenheit, a temperature at which lead and aluminum have long since liquefied. Powerful winds sucked new air into the firestorm. There were reports of babies being torn by the high winds from their mothers' arms and sucked into the flames. Of the 45,000 people killed, it has been estimated that 50 percent were women and children and many of the men killed were elderly, above military age. For weeks after the raids, survivors were plagued by "...droves of vicious rats, grown strong by feeding on the corpses that were left unburied within the rubble as well as the potatoes and other food supplies lost beneath the broken buildings."

The German cities Kassel, Pforzheim, Mainz, Dresden and Berlin were similarly destroyed, and in Japan, US bombing created firestorms in many cities, for example Tokyo, Kobe and Yokohama. In Tokyo alone, incendiary bombing caused more than 100,000 civilian casualties.

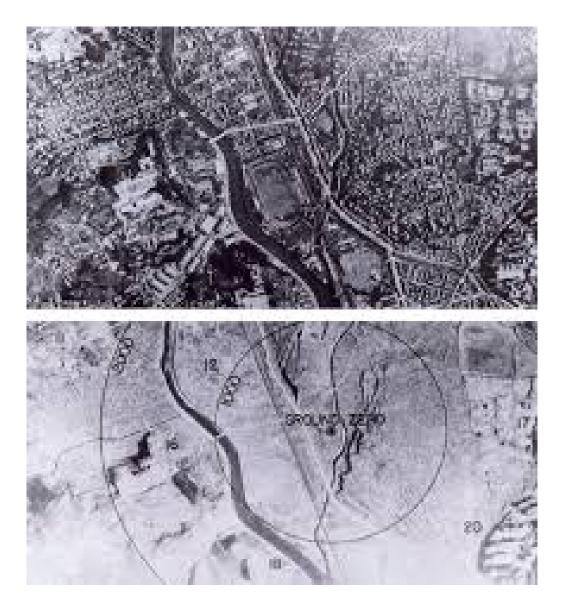
Hiroshima and Nagasaki

On August 6, 1945, at 8.15 in the morning, a nuclear fission bomb was exploded in the air over the civilian population of Hiroshima in an already virtually defeated Japan. The force of the explosion was equivalent to fifteen thousand tons of TNT. Out of a city of two hundred and fifty thousand, one hundred thousand were killed immediately, and another hundred thousand were hurt. Many of the injured died later from radiation sickness. A few days later, Nagasaki was similarly destroyed.

The tragic destruction of the two Japanese cities was horrible enough in itself, but it also marked the start of a nuclear arms race that continues to cast a very dark shadow over the future of civilization. Not long afterwards, the Soviet Union exploded its own atomic

4.2. KILLING CIVILIANS





bomb, creating feelings of panic in the United States. President Truman authorized an all-out effort to build superbombs based on thermonuclear reactions, the reactions that heat the sun and stars.

In March, 1954, the US tested a thermonuclear bomb at Bikini Atoll in the Pacific Ocean. It was 1000 times more powerful than the Hiroshima bomb. The Japanese fishing boat, Lucky Dragon, was 135 kilometers from the Bikini explosion, but radioactive fallout from the explosion killed one crew member and made all the others seriously ill. The distance to the Marshall Islands was equally large, but even today, islanders continue to suffer from the effects of fallout from the test, for example frequent birth defects.

Driven by the paranoia of the Cold War, the number of nuclear weapons on both sides reached truly insane heights. At the worst point, there were 50,000 nuclear weapons in the world, with a total explosive power roughly a million times the power of the Hiroshima bomb. This was equivalent to 4 tons of TNT for every person on the planet - enough to destroy human civilization many times over - enough to threaten the existence of all life on earth.

At the end of the Cold War, most people heaved a sigh of relief and pushed the problem of nuclear weapons away from their minds. It was a threat to life too horrible to think about. People felt that they could do nothing in any case, and they hoped that the problem had finally disappeared.

Today, however, many thoughtful people realize that the problem of nuclear weapons has by no means disappeared, and in some ways it is even more serious now than it was during the Cold War. There are still over 15,000 nuclear weapons in the world, many of them hydrogen bombs, many on hair-trigger alert, ready to be fired with only a few minutes warning. The world has frequently come extremely close to accidental nuclear war. If nuclear weapons are allowed to exist for a long period of time, the probability for such a catastrophic accident to happen will grow into a certainty.

Current dangers also come from proliferation. Recently, more and more nations have come to possess nuclear weapons, and thus the danger that they will be used increases. For example, if Pakistan's less-than-stable government should fall, its nuclear weapons might find their way into the hands of terrorists, and against terrorism deterrence has no effect.

Thus we live at a special time in history - a time of crisis for civilization. We did not ask to be born at a moment of crisis, but such is our fate. Every person now alive has a special responsibility: We owe it, both to our ancestors and to future generations, to build a stable and cooperative future world. It must be a war-free world, from which nuclear weapons have been completely abolished. No person can achieve these changes alone, but together we can build the world that we desire. This will not happen through inaction, but it can happen through the dedicated work of large numbers of citizens.

Civilians have for too long played the role of passive targets, hostages in the power struggles of politicians. It is time for civil society to make its will felt. If our leaders continue to enthusiastically support the institution of war, if they will not abolish nuclear weapons, then let us have new leaders.

4.3 The direct and indirect costs of war

The costs of war, both direct and indirect, are so enormous that they are almost beyond comprehension. We face a direct threat because a thermonuclear war may destroy human civilization and much of the biosphere, and an indirect threat because the institution of war interferes seriously with the use of tax money for constructive and peaceful purposes.

Today, despite the end of the Cold War, the world spends roughly 1.7 trillion (i.e. 1.7 million million) US dollars each year on armaments. This colossal flood of money could have been used instead for education, famine relief, development of infrastructure, or on urgently needed public health measures.

The World Health Organization lacks funds to carry through an antimalarial program on as large a scale as would be desirable, but the entire program could be financed for less than our military establishments spend in a single day. Five hours of world arms spending is equivalent to the total cost of the 20-year WHO campaign that resulted in the eradication of smallpox. For every 100,000 people in the world, there are 556 soldiers, but only 85 doctors. Every soldier costs an average of \$20,000 per year, while the average spent on education is only \$380 per school-aged child. With a diversion of funds consumed by three weeks of military spending, the world could create a sanitary water supply for all its people, thus eliminating the cause of almost half of all human illness.

A new drug-resistant form of tuberculosis has recently become widespread in Asia and in the former Soviet Union. In order to combat this new and highly dangerous form of tuberculosis and to prevent its spread, WHO needs \$500 million, an amount equivalent to 1.2 hours of world arms spending.

Today's world is one in which roughly ten million children die every year from starvation or from diseases related to poverty. Besides this enormous waste of young lives through malnutrition and preventable disease, there is a huge waste of opportunities through inadequate education. The rate of illiteracy in the 25 least developed countries is 80%, and the total number of illiterates in the world is estimated to be 800 million. Meanwhile every 60 seconds the world spends \$6.5 million on armaments.

It is plain that if the almost unbelievable sums now wasted on the institution of war were used constructively, most of the pressing problems of humanity could be solved, but today the world spends more than 20 times as much on war as it does on development.

4.4 Medical and psychological consequences; loss of life

While in earlier epochs it may have been possible to confine the effects of war mainly to combatants, in the 20th century the victims of war were increasingly civilians, and especially children. For example, according to Quincy Wright's statistics, the First and Second World Wars cost the lives of 26 million soldiers, but the toll in civilian lives was much larger: 64 million.

4.5. EFFECTS OF WAR ON CHILDREN

Since the Second World War, despite the best efforts of the UN, there have been over 150 armed conflicts; and, if civil wars are included, there are on any given day an average of 12 wars somewhere in the world. In the conflicts in Indo-China, the proportion of civilian victims was between 80% and 90%, while in the Lebanese civil war some sources state that the proportion of civilian casualties was as high as 97%.

Civilian casualties often occur through malnutrition and through diseases that would be preventable in normal circumstances. Because of the social disruption caused by war, normal supplies of food, safe water and medicine are interrupted, so that populations become vulnerable to famine and epidemics.¹

4.5 Effects of war on children

According to UNICEF figures, 90% of the casualties of recent wars have been civilians, and 50% children. The organization estimates that in recent years, violent conflicts have driven 20 million children from their homes. They have become refugees or internally displaced persons within their own countries.

During the last decade 2 million children have been killed and 6 million seriously injured or permanently disabled as the result of armed conflicts, while 1 million children have been orphaned or separated from their families. Of the ten countries with the highest rates of death of children under five years of age, seven are affected by armed conflicts. UNICEF estimates that 300,000 child soldiers are currently forced to fight in 30 armed conflicts throughout the world. Many of these have been forcibly recruited or abducted.

Even when they are not killed or wounded by conflicts, children often experience painful psychological traumas: the violent death of parents or close relatives, separation from their families, seeing family members tortured, displacement from home, disruption of ordinary life, exposure to shelling and other forms of combat, starvation and anxiety about the future.²

4.6 Refugees

Human Rights Watch estimates that in 2001 there were 15 million refugees in the world, forced from their countries by war, civil and political conflict, or by gross violations of human rights. In addition, there were an estimated 22 million internally displaced persons, violently forced from their homes but still within the borders of their countries.

In 2001, 78% of all refugees came from ten areas: Afghanistan, Angola, Burma, Burundi, Congo-Kinshasa, Eritrea, Iraq, the Palestinian territories, Somalia and Sudan. A quarter of all refugees are Palestinians, who make up the world's oldest and largest refugee

¹http://www.cadmusjournal.org/article/volume-2/issue-2-part-3/lessons-world-war-i http://www.truth-out.org/opinion/item/27201-the-leading-terrorist-state

²http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2080482/

population. 45% of the world's refugees have found sanctuaries in Asia, 30% in Africa, 19% in Europe and 5% in North America.

Refugees who have crossed an international border are in principle protected by Article 14 of the Universal Declaration of Human Rights, which affirms their right "to seek and to enjoy in other countries asylum from persecution". In 1950 the Office of the High Commissioner for Refugees was created to implement Article 14, and in 1951 the Convention Relating to the Status of Refugees was adopted by the UN. By 2002 this legally binding treaty had been signed by 140 nations. However the industrialized countries have recently adopted a very hostile and restrictive attitude towards refugees, subjecting them to arbitrary arrests, denial of social and economic rights, and even forcible return to countries in which they face persecution.

The status of internally displaced persons is even worse than that of refugees who have crossed international borders. In many cases the international community simply ignores their suffering, reluctant to interfere in the internal affairs of sovereign states. In fact, the United Nations Charter is self-contradictory in this respect, since on the one hand it calls for non-interference in the internal affairs of sovereign states, but on the other hand, people everywhere are guaranteed freedom from persecution by the Charter's Universal Declaration of Human Rights.³

4.7 Damage to infrastructure

Most insurance policies have clauses written in fine print exempting companies from payment of damage caused by war. The reason for this is simple. The damage caused by war is so enormous that insurance companies could never come near to paying for it without going bankrupt.

We mentioned above that the world spends 1.7 trillion dollars each year on preparations for war. A similarly colossal amount is needed to repair the damage to infrastructure caused by war. Sometimes this damage is unintended, but sometimes it is intentional.

During World War II, one of the main aims of air attacks by both sides was to destroy the industrial infrastructure of the opponent. This made some sense in a war expected to last several years, because the aim was to prevent the enemy from producing more munitions. However, during the Gulf War of 1990, the infrastructure of Iraq was attacked, even though the war was expected to be short. Electrical generating plants and water purification facilities were deliberately destroyed with the apparent aim of obtaining leverage over Iraq after the war.

In general, because war has such a catastrophic effect on infrastructure, it can be thought of as the opposite of development. War is the greatest generator of poverty.⁴

³https://www.hrw.org/topic/refugees

⁴https://www.wsws.org/en/articles/2002/11/iraq-n04.html

http://www.globalresearch.ca/crimes-against-humanity-the-destruction-of-iraqs-electricity-infrastructure-the-social-economic-and-environmental-impacts/5355665

http://www.afdb.org/fileadmin/uploads/afdb/Documents/Publications/00157630-EN-ERP-48.PDF

4.8 Ecological damage

Warfare during the 20th century has not only caused the loss of 175 million lives (primarily civilians) - it has also caused the greatest ecological catastrophes in human history. The damage takes place even in times of peace. Studies by Joni Seager, a geographer at the University of Vermont, conclude that "a military presence anywhere in the world is the single most reliable predictor of ecological damage".

Modern warfare destroys environments to such a degree that it has been described as an "environmental holocaust." For example, herbicides use in the Vietnam War killed an estimated 6.2 billion board-feet of hardwood trees in the forests north and west of Saigon, according to the American Association for the Advancement of Science. Herbicides such as Agent Orange also made enormous areas of previously fertile land unsuitable for agriculture for many years to come. In Vietnam and elsewhere in the world, valuable agricultural land has also been lost because land mines or the remains of cluster bombs make it too dangerous for farming.

During the Gulf War of 1990, the oil spills amounted to 150 million barrels, 650 times the amount released into the environment by the notorious Exxon Valdez disaster. During the Gulf War an enormous number of shells made of depleted uranium were fired. When the dust produced by exploded shells is inhaled it often produces cancer, and it will remain in the environment of Iraq for decades.

Radioactive fallout from nuclear tests pollutes the global environment and causes many thousands of cases of cancer, as well as birth abnormalities. Most nuclear tests have been carried out on lands belonging to indigenous peoples. Agent Orange also produced cancer, birth abnormalities and other serious forms of illness both in the Vietnamese population and among the foreign soldiers fighting in Vietnam⁵

4.9 Links between poverty and war

There are several relationships between intolerable economic inequality and war. Today 2.7 billion people live on less than 2 dollars a day - 1.1 billion on less than 1 dollar per day. 18 million of our fellow humans die each year from poverty-related causes. In 2006, 1.1 billion people lacked safe drinking water, and waterbourne diseases killed an estimated 1.8 million people. The developing countries are also the scene of a resurgence of other infectious diseases, such as malaria, drug-resistant tuberculosis and HIV/AIDS.

Meanwhile, in 2011, world military budgets reached 1,700,000,000,000 dollars (i.e. 1.7 million million dollars). This amount of money is almost too large to be imagined. The fact that it is being spent means that many people are making a living from the institution of war. Wealthy and powerful lobbies from the military-industrial complex are able to influence mass media and governments. Thus the institution of war persists, although we

 $^{^{5}} http://www.dailymail.co.uk/news/article-2401378/Agent-Orange-Vietnamese-children-suffering-effects-herbicide-sprayed-US-Army-40-years-ago.html$

know very well that it is a threat to civilization and that it responsible for much of the suffering that humans experience.

Today's military spending of almost two trillion US dollars per year would be more than enough to finance safe drinking water for the entire world, and to bring primary health care and family planning advice to all. If used constructively, the money now wasted (or worse than wasted) on the institution of war could also help the world to make the transition from fossil fuel use to renewable energy systems.

Military might is used by powerful industrialized nations to maintain economic hegemony over less developed countries. This is true today, even though the colonial era is supposed to be over (as has been amply documented by Professor Michael Klare in his books on "Resource Wars").

The way in which the industrialized countries maintain their control over less developed nations can be illustrated by the "resource curse", i.e. the fact that resource-rich developing countries are no better off economically than those that lack resources, but are cursed with corrupt and undemocratic governments. This is because foreign corporations extracting local resources under unfair agreements exist in a symbiotic relationship with corrupt local officials.

One might think that taxation of foreign resource-extracting firms would provide developing countries with large incomes. However, there is at present no international law governing multinational tax arrangements. These are usually agreed to on a bilateral basis, and the industrialized countries have stronger bargaining powers in arranging the bilateral agreements.

Another important poverty-generating factor in the developing countries is war - often civil war. The five permanent members of the U.N. Security Council are, ironically, the five largest exporters of small arms. Small arms have a long life. The weapons poured into Africa by both sides during the Cold War are still there, and they contribute to political chaos and civil wars that block development and cause enormous human suffering.

The United Nations website on Peace and Security through Disarmament states that "Small arms and light weapons destabilize regions; spark, fuel and prolong conflicts; obstruct relief programmes; undermine peace initiatives; exacerbate human rights abuses; hamper development; and foster a 'culture of violence'."

An estimated 639 million small arms and light weapons are in circulation worldwide, one for every ten people. Approximately 300,000 people are killed every year by these weapons, many of them women and children.

There is also another, less obvious, link between intolerable economic inequality war: Abolition of the institution of war will require the replacement of "might makes right" by the rule international law. It will require development of effective global governance. But reform and strengthening of the United Nations is blocked by wealthy countries because they are afraid of loosing their privileged positions. If global economic inequality were less enormous, the problem of unifying the world would be simplified.

Let us work to break the links between poverty and war! To do that, we must work for laws that will restrict the international sale of small arms; we must work for a fair relationship between developing countries and multinational corporations; and above all, we must question the need for colossal military budgets. By following this path we can free the world from the intolerable suffering caused by poverty and from the equally intolerable suffering caused by war.

4.10 The threat of nuclear war

As bad as conventional arms and conventional weapons may be, it is the possibility of a catastrophic nuclear war that poses the greatest threat to humanity. There are today roughly 16,000 nuclear warheads in the world. The total explosive power of the warheads that exist or that could be made on short notice is approximately equal to 500,000 Hiroshima bombs.

To multiply the tragedy of Hiroshima by a factor of half a million makes an enormous difference, not only quantitatively, but also qualitatively. Those who have studied the question believe that a nuclear catastrophe today would inflict irreversible damage on our civilization, genetic pool and environment.

Thermonuclear weapons consist of an inner core where the fission of uranium-235 or plutonium takes place. The fission reaction in the core is able to start a fusion reaction in the next layer, which contains isotopes of hydrogen. It is possible to add a casing of ordinary uranium outside the hydrogen layer, and under the extreme conditions produced by the fusion reaction, this ordinary uranium can undergo fission. In this way, a fissionfusion-fission bomb of almost limitless power can be produced.

For a victim of severe radiation exposure, the symptoms during the first week are nausea, vomiting, fever, apathy, delirium, diarrhoea, oropharyngeal lesions and leukopenia. Death occurs during the first or second week.

We can perhaps be helped to imagine what a nuclear catastrophe means in human terms by reading the words of a young university professor, who was 2,500 meters from the hypocenter at the time of the bombing of Hiroshima: "Everything I saw made a deep impression: a park nearby covered with dead bodies... very badly injured people evacuated in my direction... Perhaps most impressive were girls, very young girls, not only with their clothes torn off, but their skin peeled off as well. ... My immediate thought was that this was like the hell I had always read about. ... I had never seen anything which resembled it before, but I thought that should there be a hell, this was it."

One argument that has been used in favor of nuclear weapons is that no sane political leader would employ them. However, the concept of deterrence ignores the possibility of war by accident or miscalculation, a danger that has been increased by nuclear proliferation and by the use of computers with very quick reaction times to control weapons systems.

Recent nuclear power plant accidents remind us that accidents frequently happen through human and technical failure, even for systems which are considered to be very "safe." We must also remember the time scale of the problem. To assure the future of humanity, nuclear catastrophe must be avoided year after year and decade after decade. In the long run, the safety of civilization cannot be achieved except by the abolition of nuclear weapons, and ultimately the abolition of the institution of war. In 1985, International Physicians for the Prevention of Nuclear War received the Nobel Peace Prize. IPPNW had been founded in 1980 by six physicians, three from the Soviet Union and three from the United States. Today, the organization has wide membership among the world's physicians. Professor Bernard Lowen of the Harvard School of Public Health, one of the founders of IPPNW, said in a recent speech:

"...No public health hazard ever faced by humankind equals the threat of nuclear war. Never before has man possessed the destructive resources to make this planet uninhabitable... Modern medicine has nothing to offer, not even a token benefit, in the event of nuclear war..."

"We are but transient passengers on this planet Earth. It does not belong to us. We are not free to doom generations yet unborn. We are not at liberty to erase humanity's past or dim its future. Social systems do not endure for eternity. Only life can lay claim to uninterrupted continuity. This continuity is sacred."

The danger of a catastrophic nuclear war casts a dark shadow over the future of our species. It also casts a very black shadow over the future of the global environment. The environmental consequences of a massive exchange of nuclear weapons have been treated in a number of studies by meteorologists and other experts from both East and West. They predict that a large-scale use of nuclear weapons would result in fire storms with very high winds and high temperatures, which would burn a large proportion of the wild land fuels in the affected nations. The resulting smoke and dust would block out sunlight for a period of many months, at first only in the northern hemisphere but later also in the southern hemisphere.

Temperatures in many places would fall far below freezing, and much of the earth's plant life would be killed. Animals and humans would then die of starvation. The nuclear winter effect was first discovered as a result of the Mariner 9 spacecraft exploration of Mars in 1971. The spacecraft arrived in the middle of an enormous dust-storm on Mars, and measured a large temperature drop at the surface of the planet, accompanied by a heating of the upper atmosphere. These measurements allowed scientists to check their theoretical models for predicting the effect of dust and other pollutants distributed in planetary atmospheres.

Using experience gained from the studies of Mars, R.P. Turco, O.B. Toon, T. Ackerman, J.B. Pollack and C. Sagan made a computer study of the climatic effects of the smoke and dust that would result from a large-scale nuclear war. This early research project is sometimes called the TTAPS Study, after the initials of the authors.

In April 1983, a special meeting was held in Cambridge, Massachusetts, where the results of the TTAPS Study and other independent studies of the nuclear winter effect were discussed by more than 100 experts. Their conclusions were presented at a forum in Washington, D.C., the following December, under the chairmanship of U.S. Senators Kennedy and Hatfield. The numerous independent studies of the nuclear winter effect all agreed of the following main predictions:

High-yield nuclear weapons exploded near the earth's surface would put large amounts of dust into the upper atmosphere. Nuclear weapons exploded over cities, forests, oilfields and refineries would produce fire storms of the type experienced in Dresden and Hamburg after incendiary bombings during the Second World War. The combination of high-altitude dust and lower altitude soot would prevent sunlight from reaching the earth's surface, and the degree of obscuration would be extremely high for a wide range of scenarios.

A baseline scenario used by the TTAPS study assumes a 5,000-megaton nuclear exchange, but the threshold for triggering the nuclear winter effect is believed to be much lower than that. After such an exchange, the screening effect of pollutants in the atmosphere might be so great that, in the northern and middle latitudes, the sunlight reaching the earth would be only 1% of ordinary sunlight on a clear day, and this effect would persist for many months. As a result, the upper layers in the atmosphere might rise in temperature by as much as 100 °C, while the surface temperatures would fall, perhaps by as much a 50 °C.

The temperature inversion produced in this way would lead to superstability, a condition in which the normal mixing of atmospheric layers is suppressed. The hydrological cycle (which normally takes moist air from the oceans to a higher and cooler level, where the moisture condenses as rain) would be strongly suppressed. Severe droughts would thus take place over continental land masses. The normal cleansing action of rain would be absent in the atmosphere, an effect which would prolong the nuclear winter.

In the northern hemisphere, forests would die because of lack of sunlight, extreme cold, and drought. Although the temperature drop in the southern hemisphere would be less severe, it might still be sufficient to kill a large portion of the tropical forests, which normally help to renew the earth's oxygen.

The oxygen content of the atmosphere would then fall dangerously, while the concentration of carbon dioxide and oxides of nitrogen produced by firestorms would remain high. The oxides of nitrogen would ultimately diffuse to the upper atmosphere, where they would destroy the ozone layer.

Thus, even when the sunlight returned after an absence of many months, it would be sunlight containing a large proportion of the ultraviolet frequencies which are normally absorbed by the ozone in the stratosphere, and therefore a type of light dangerous to life. Finally, after being so severely disturbed, there is no guarantee that the global climate would return to its normal equilibrium.

Even a nuclear war below the threshold of nuclear winter might have climatic effects very damaging to human life. Professor Paul Ehrlich, of Stanford University, has expressed this in the following words:

"...A smaller war, which set off fewer fires and put less dust into the atmosphere, could easily depress temperatures enough to essentially cancel grain production in the northern hemisphere. That in itself would be the greatest catastrophe ever delivered upon Homo Sapiens, just that one thing, not worrying about prompt effects. Thus even below the threshold, one cannot think of survival of a nuclear war as just being able to stand up after the bomb has gone off."⁶

 $^{^{6}} http://www.voanews.com/content/pope-francis-calls-for-nuclear-weapons-ban/2909357.html http://www.cadmusjournal.org/article/issue-4/flaws-concept-nuclear-deterrance$

http://www.countercurrents.org/avery 300713.htm

https://www.wagingpeace.org/author/john-avery/



Figure 4.1: U.N. Secretary General Antonio Guterres addressed the Human Rights Council at the United Nations in Geneva, Switzerland February 26, 2018.

Speaking to the Conference on Disarmament at the U.N. complex in Geneva, Guterres said many states still wrongly thought that nuclear weapons made the world safer.

"There is great and justified anxiety around the world about the threat of nuclear war,"

http://human-wrongs-watch.net/2015/07/22/israel-iran-and-the-nuclear-non-proliferation-treaty/

http://human-wrongs-watch.net/2015/06/25/militarisms-hostages/

http://www.informationclearinghouse.info/article42568.htm

populations-was-a-criminal-act-of-the-first-order/

http://www.commondreams.org/news/2015/08/06/70-years-after-bombing-hiroshima-calls-abolish-nuclear-weapons

http://www.informationclearinghouse.info/article42488.htm

http://www.informationclearinghouse.info/article42492.htm

http://www.commondreams.org/views/2015/08/06/hiroshima-and-nagasaki-remembering-power

http://human-wrongs-watch.net/2015/05/24/the-path-to-zero-dialogues-on-nuclear-dangers-by-richard-falk-and-david-krieger/

http://www.truth-out.org/opinion/item/32073-the-us-should-eliminate-its-nuclear-arsenal-not-modernize-it

http://www.cadmusjournal.org/article/issue-4/flaws-concept-nuclear-deterrance

http://www.cadmusjournal.org/article/issue-6/arms-trade-treaty-opens-new-possibilities-u

http://eruditio.worldacademy.org/issue-6/article/remember-your-humanity

https://firstlook.org/theintercept/2014/09/23/nobel-peace-prize-fact-day-syria-7th-country-bombed-obama/

http://www.informationclearinghouse.info/article 42577.htm

http://www.informationclearinghouse.info/article42580.htm

http://human-wrongs-watch.net/2015/08/06/us-unleashing-of-atomic-weapons-against-civilian-us-again-us-again-us-again-us-again-us-again-us-again-

http://human-wrongs-watch.net/2015/08/06/hiroshima-and-nagasaki-remembering-the-power-of-peace/

http://human-wrongs-watch.net/2015/08/04/atomic-bombing-hear-the-story-setsuko-thurlow/linear-thurlow/linear-thurlow/linear-the-story-setsuko-thurlow/linear-the-story-setsuko-thurlow-setsuko-thurlow/linear-the-story-setsuko-thurl

http://human-wrongs-watch.net/2015/08/04/atomic-bombing-hear-the-story-yasuaki-yamashita/2015/08/04/2015/08/04/2015/08/04/2015/08/04/2015/08/04/2015/08/04/2015/08/04/2015/08/04/2015/08/04/2015/08/04/2015/08/04/2015/08/04/04/2015/08/04/2015/08/04/2015/08/04/04/2015/08/04/201

http://human-wrongs-watch.net/2015/08/03/why-nuclear-weapons/

he said.

"Countries persist in clinging to the fallacious idea that nuclear arms make the world safer ... At the global level, we must work towards forging a new momentum on eliminating nuclear weapons."

Two World War I poems by Wilfred Owen

Wilfred Owen and his mentor, Siegfried Sassoon were two poets who eloquently described the horrors of World War I. They met in a military hospital, after both had been wounded in the war. Owen had been writing poetry since the age of 11, but not about war. When he became friends with Sassoon during their hospital stay, Owen was inspired by Sassoon's example and realized that the horrors of trenches and gas warfare deserved to be described realistically in poetry. Against the strong advice of Sassoon, Owen insisted on returning to active duty in France, where he wrote the eloquent and bitter war poems for which he is remembered.

Owen was killed in action exactly one week before the end of the war. His mother received the telegram informing her of his death on Armistice Day, as the church bells were ringing out in celebration. Here are two of Owen's poems:

Dulce et decorum Est

Bent double, like old beggars under sacks, Knock-kneed, coughing like hags, we cursed through sludge, Till on the haunting flares we turned out backs, And towards our distant rest began to trudge. Men marched asleep. Many had lost their boots, But limped on, blood-shod. All went lame, all blind; Drunk with fatigue; deaf even to the hoots Of gas-shells dropping softly behind.

Gas! GAS! Quick, boys! - An ecstasy of fumbling Fitting the clumsy helmets just in time, But someone still was yelling out and stumbling And flound'ring like a man in fire or lime. Dim through the misty panes and thick green light, As under a green sea, I saw him drowning. In all my dreams before my helpless sight He plunges at me, guttering, choking, drowning.

If in some smothering dreams, you too could pace Behind the wagon that we flung him in, And watch the white eyes writhing in his face, His hanging face, like a devil's sick of sin,

SELLING WEAPONS, SELLING WAR

If you could hear, at every jolt, the blood Come gargling from the froth-corrupted lungs Obscene as cancer, bitter as the cud Of vile, incurable sores on innocent tongues, My friend, you would not tell with such high zest To children ardent for some desperate glory, The old Lie: Dulce et decorum est Pro patria mori.

The parable of the old man and the young

So Abram rose, and clave the wood, and went, And took the fire with him, and a knife. And as they sojourned both of them together, Isaac the first-born spake and said, My Father, Behold the preparations, fire and iron, But where the lamb for this burnt-offering? Then Abram bound the youth with belts and straps, and builded parapets and trenches there, And stretchèd forth the knife to slay his son. When lo! an angel called him out of heaven, Saying, Lay not thy hand upon the lad, Neither do anything to him. Behold, A ram, caught in a thicket by its horns; Offer the Ram of Pride instead of him.

But the old man would not so, but slew his son, And half the seed of Europe, one by one.

We condemn human sacrifice in primitive cultures, but does not our modern industrial society also practice this abominable custom? We sacrifice countless young men and women in endless and unnecessary wars.

World War II: a continuation of World War I

In the Second World War, the number of soldiers killed was roughly the same as in World War I, but the numbers of civilian deaths was much larger. In the USSR alone, about 20 million people are thought to have been killed, directly or indirectly, by World War II, and of these only 7.5 million were battle deaths. Many of the USSR's civilian deaths were caused by starvation, disease or exposure. Civilian populations also suffered greatly in the devastating bombings of cities such as London, Coventry, Rotterdam, Warsaw, Dresden, Cologne, Berlin, Tokyo, Hiroshima and Nagasaki. In World War II, the total number of deaths, civilian and military, is estimated to have been between 62 and 78 million.

4.10. THE THREAT OF NUCLEAR WAR

Do Benjamin Netanyahu and Ehud Barak, who are contemplating starting what might develop into World War III, have any imaginative concept of what it would be like? Netanyahu has told the Israeli people that only 500 of their citizens would be killed, and that the conflict would be over in a month. One is reminded of the Austrian leaders in 1914, who started a what they thought would be a small action to punish the Serbian nationalists for their Pan-Slavic ambitions. When the result was a world-destroying war, they said "That is not what we intended." Of course it is not what they intended, but nobody can control the escalation of conflicts. The astonishing unrealism of the Netanyahu-Barak statements also reminds one of Kaiser Wilhelm's monumentally unrealistic words to his departing troops: "You will be home before the leaves are off the trees."

The planned attack on Iran would not only violate international law, but would also violate common sense and the wishes of the people of Israel. The probable result would be a massive Iranian missile attack on Tel Aviv, and Iran would probably also close the Straits of Hormuz. If the United States responded by bombing Iranian targets, Iran would probably use missiles to sink one or more of the US ships in the Persian Gulf. One can easily imagine other steps in the escalation of the conflict: a revolution in Pakistan; the entry of nuclear-armed Pakistan into the war on the side of Iran; a preemptive nuclear strike by Israel against Pakistan's nuclear weapons; and Chinese-Russian support of Iran. In the tense atmosphere of such a war, the danger of a major nuclear exchange, due to accident or miscalculation, would be very great.

Today, because the technology of killing has continued to develop, the danger of a catastrophic war with hydrogen bombs hangs like a dark cloud over the future of human civilization. The total explosive power of today's weapons is equivalent to roughly half a million Hiroshima bombs. To multiply the tragedy of Hiroshima and Nagasaki by a factor of half a million changes the danger qualitatively. What is threatened today is the complete breakdown of human society.

There are more than 15,000 nuclear weapons in the world today, about 4,000 of them on hair-trigger alert. The phrase "hair trigger alert" means that the person in charge has only 15 minutes to decide whether the warning from the radar system was true of false, and to decide whether or not to launch a counterattack. The danger of accidental nuclear war continues to be high. Technical failures and human failures have many times brought the world close to a catastrophic nuclear war. Those who know the system of "deterrence" best describe it as "an accident waiting to happen".

No one can win a nuclear war, just as no one can win a natural catastrophe like an earthquake or a tsunami. The effects of a nuclear war would be global, and all the nations of the world would suffer - also neutral nations.

Recent studies by atmospheric scientists have shown that the smoke from burning cities produced by even a limited nuclear war would have a devastating effect on global agriculture. The studies show that the smoke would rise to the stratosphere, where it would spread globally and remain for a decade, blocking sunlight, blocking the hydrological cycle and destroying the ozone layer. Because of the devastating effect on global agriculture, darkness from even a small nuclear war could result in an estimated billion deaths from famine. This number corresponds to the fact that today, a billion people are chronically



undernourished. If global agriculture were sufficiently damaged by a nuclear war, these vulnerable people might not survive. A large-scale nuclear war would be an even greater global catastrophe, completely destroying all agriculture for a period of ten years.

The tragedies of Chernobyl and Fukushima remind us that a nuclear war would make large areas of the world permanently uninhabitable because of long-lasting radioactive contamination.

The First World War was a colossal mistake. Today, the world stands on the threshold of an equally enormous disaster. Must we again be lead into a world-destroying war by a few blind individuals who do not have the slightest idea of what such a war would be like?

4.11 Atoms for peace?

"Atoms for Peace", the title of U.S. President Dwight D. Eisenhower's 1953 speech to the U.N. General Assembly, may be regarded by future generations as being tragically self-contradictory. Nuclear power generation has led not only to dangerous proliferation of nuclear weapons, but also to disasters which have made large areas of the world permanently uninhabitable because of long-lived radioactive contamination.

4.11. ATOMS FOR PEACE?

According to Wikipedia, "...Under Atoms for Peace related programs, the US exported 25 tons of highly enriched uranium to 30 countries, mostly to fuel research reactors....The Soviet Union also exported 11 tons of HEU under a similar program." This enormous quantity of loose weapons-usable highly enriched uranium, is now regarded as very worrying because of proliferation and terrorism risks.

A recent article in "The Examiner" (http://www.examiner.com/article/nuclear-securityu-s-fails-to-protect-its-nuclear-materials-overseas) pointed out that "...NRC and DOE could not account for the current location and disposition of U.S. HEW overseas in response to a 1992 congressional mandate. U.S. agencies, in a 1993 report produced in response to the mandate, were able to verify the location of only 1.160 kilograms out of 17,500 kilograms of U.S. HEW estimated to have been exported."

The dangers of nuclear power generation are exemplified by the Chernobyl disaster: On the 26th of April, 1986, during the small hours of the morning, the staff of the Chernobyl nuclear reactor in Ukraine turned off several safety systems in order to perform a test. The result was a core meltdown in Reactor 4, causing a chemical explosion that blew off the reactor's 1,000-ton steel and concrete lid. 190 tons of highly radioactive uranium and graphite were hurled into the atmosphere.

The resulting radioactive fallout was 200 times greater than that caused by the nuclear bombs that destroyed Hiroshima and Nagasaki. The radioactive cloud spread over Belarus, Ukraine, Russia, Finland, Sweden and Eastern Europe, exposing the populations of these regions to levels of radiation 100 times the normal background. Ultimately, the radioactive cloud reached as far as Greenland and parts of Asia.

The exact number of casualties resulting from the Chernobyl meltdown is a matter of controversy, but according to a United Nations report, as many as 9 million people have been adversely affected by the disaster. Since 1986, the rate of thyroid cancer in affected areas has increased ten-fold. An area of 155,000 square kilometers (almost half the size of Italy) in Belarus, Ukraine and Russia is still severely contaminated. Even as far away as Wales, hundreds of farms are still under restrictions because of sheep eating radioactive grass.

The more recent disaster of 11 March, 2011, may prove to be very much worse than Chernobyl. According to an article by Harvey Wasserman

(http://www.commondreams.org/view/2014/02/03-3),

the ongoing fallout from the Fukushima catastrophe is already far in excess of that from Chernobyl. Ecosystems of the entire Pacific ocean are being contaminated by the 300 tons of radioactive water from Fukushima.that continue to pour into the Pacific every day.

Meanwhile, the increasingly militaristic government of Japan's Prime Minister Shinzo Abe has passed a State Secrets Act that makes it an offense punishable by 5 year's imprisonment for journalists to report on the situation. Under this cloak of secrecy, attempts are being made to remove highly radioactive used fuel rods balanced precariously in a partially destroyed container hanging in the air above the stricken Unit Four. If an accident should occur, the released radioactivity could dwarf previous disasters.

Public opinion turned against nuclear power generation as a result of the Chernobyl and Fukushima catastrophes. Nevertheless, many governments insist on pushing forward



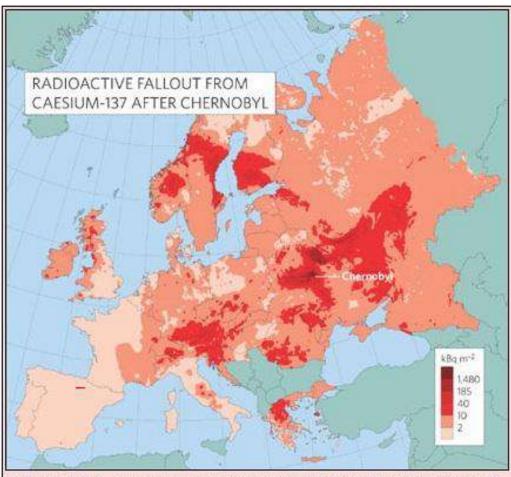
their plans for opening new nuclear power plants, despite popular opposition. Nuclear power could never compete in price with solar energy or wind energy if it were not heavily subsidized by governments. Furthermore, if a careful accounting is made of the CO2 released in the construction of nuclear power plants, the mining, refining and transportation of uranium ore, and the final decommissioning of the plants, the amount of CO2 released is seen to be similar to that of coal-fired plants.

There are three basic reasons why nuclear power generation is is one of the worst ideas ever conceived: First is the danger of proliferation of nuclear weapons, which will be discussed in detail below. Secondly, there is the danger of catastrophic accidents, such as the ones that occurred at Chernobyl and Fukushima. Finally, the problem of how to safely dispose of or store used fuel rods has not been solved.

In thinking about the dangers posed by radioactive waste, we should remember that many of the dangerous radioisotopes involved have half-lives of hundreds of thousands of years. Thus, it is not sufficient to seal them in containers that will last for a century, or even a millennium. We must find containers that will last for a hundred thousand years or more, longer than any human structure has ever lasted.

Of the two bombs that destroyed Hiroshima and Nagasaki, one made use of the rare isotope of uranium, U-235, while the other used plutonium. Both of these materials can be made by a nation with a nuclear power generation program.

Uranium has atomic number 92, i.e., a neutral uranium atom has a nucleus containing 92 positively-charged protons, around which 92 negatively-charged electrons circle. All of the isotopes of uranium have the same number of protons and electrons, and hence the same chemical properties, but they differ in the number of neutrons in their nuclei. For example, the nucleus of U-235 has 143 neutrons, while that of U-238 has 146. Notice that 92+143=235, while 92+146=238. The number written after the name of an element to



J. SMITH & N. A. BERESFORD CHERNOBYL: CATASTROPHE AND CONSEQUENCES (PRAXIS, CHICHESTER, 2005)





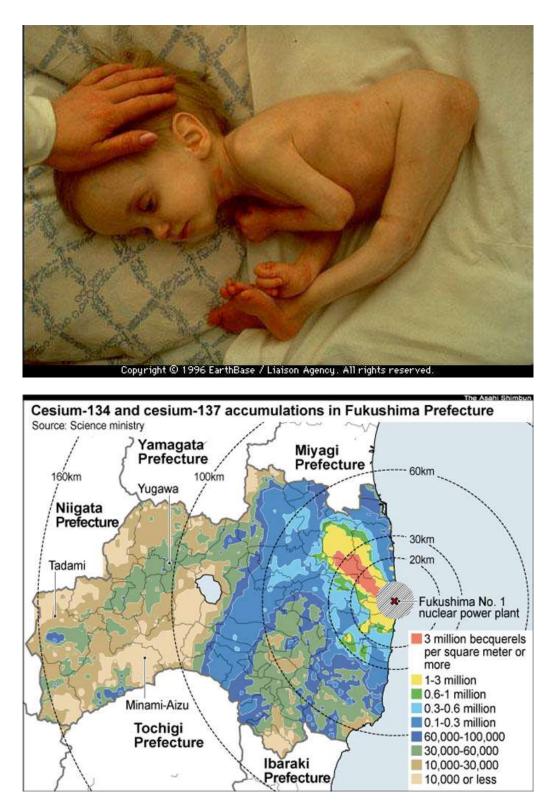


Figure 4.2: People evacuated from the region near to Fukushima wonder when they will be able to return to their homes. The honest answer is "never".

specify a particular isotope is the number of neutrons plus the number of protons. This is called the "nucleon number", and the weight of an isotope is roughly proportional to it. This means that U-238 is slightly heavier than U-235. If the two isotopes are to be separated, difficult physical methods dependent on mass must be used, since their chemical properties are identical. In natural uranium, the amount of the rare isotope U-235 is only 0.7 percent.

A paper published in 1939 by Niels Bohr and John A. Wheeler indicated that it was the rare isotope of uranium, U-235, that undergoes fission. A bomb could be constructed, they pointed out, if enough highly enriched U-235 could be isolated from the more common isotope, U-238 Calculations later performed in England by Otto Frisch and Rudolf Peierls showed that the "critical mass" of highly enriched uranium needed is quite small: only a few kilograms.

The Bohr-Wheeler theory also predicted that an isotope of plutonium, Pu-239, should be just as fissionable as U-235. Both U-235 and Pu-239 have odd nucleon numbers. When U-235 absorbs a neutron, it becomes U-236, while when Pu-239 absorbs a neutron it becomes Pu-240. In other words, absorption of a neutron converts both these species to nuclei with even nucleon numbers.

According to the Bohr-Wheeler theory, nuclei with even nucleon numbers are especially tightly-bound. Thus absorption of a neutron converts U-235 to a highly-excited state of U-236, while Pu-239 is similarly converted to a highly excited state of Pu-240. The excitation energy distorts the nuclei to such an extent that fission becomes possible. Instead of trying to separate the rare isotope, U-235, from the common isotope, U-238, physicists could just operate a nuclear reactor until a sufficient amount of Pu-239 accumulated, and then separate it out by ordinary chemical means.

Thus in 1942, when Enrico Fermi and his coworkers at the University of Chicago produced the world's first controlled chain reaction within a pile of cans containing ordinary (nonenriched) uranium powder, separated by blocks of very pure graphite, the chainreacting pile had a double significance: It represented a new source of energy, but it also had a sinister meaning. It represented an easy path to nuclear weapons, since one of the by-products of the reaction was a fissionable isotope of plutonium, Pu-239. The bomb dropped on Hiroshima in 1945 used U-235, while the Nagasaki bomb used Pu-239.

By reprocessing spent nuclear fuel rods, using ordinary chemical means, a nation with a power reactor can obtain weapons-usable Pu-239. Even when such reprocessing is performed under international control, the uncertainty as to the amount of Pu-239 obtained is large enough so that the operation might superficially seem to conform to regulations while still supplying enough Pu-239 to make many bombs.

The enrichment of uranium, i.e. production of uranium with a higher percentage of U-235 than is found in natural uranium is also linked to reactor use. Many reactors of modern design make use of low enriched uranium (LEU) as a fuel. Nations operating such a reactor may claim that they need a program for uranium enrichment in order to produce LEU for fuel rods. However, by operating their ultracentrifuges a little longer, they can easily produce highly enriched uranium (HEU), i.e. uranium containing a high percentage of the rare isotope U-235, and therefore usable in weapons.

4.11. ATOMS FOR PEACE?

Nuclear power generation is not a solution to the problem of obtaining energy without producing dangerous climate change: Known reserves of uranium are only sufficient for the generation of about 25 terawatt-years of electrical energy (Craig, J.R., Vaugn, D.J. and Skinner, B.J., "Resources of the Earth: Origin, Use and Environmental Impact, Third Edition", page 210). This can be compared with the world's current rate of energy use of over 14 terrawatts. Thus, if all of our energy were obtained from nuclear power, existing reserves of uranium would only be sufficient for about 2 years.

It is sometimes argued that a larger amount of electricity could be obtained from the same amount of uranium through the use of fast breeder reactors, but this would involve totally unacceptable proliferation risks. In fast breeder reactors, the fuel rods consist of highly enriched uranium. Around the core, is an envelope of natural uranium. The flux of fast neutrons from the core is sufficient to convert a part of the U-238 in the envelope into Pu-239, a fissionable isotope of plutonium.

Fast breeder reactors are prohibitively dangerous from the standpoint of nuclear proliferation because both the highly enriched uranium from the fuel rods and the Pu-239 from the envelope are directly weapons-usable. It would be impossible, from the standpoint of equity, to maintain that some nations have the right to use fast breeder reactors, while others do not. If all nations used fast breeder reactors, the number of nuclear weapons states would increase drastically.

It is interesting to review the way in which Israel, South Africa, Pakistan, India and North Korea obtained their nuclear weapons, since in all these cases the weapons were constructed under the guise of "atoms for peace", a phrase that future generations may someday regard as being tragically self-contradictory.

Israel began producing nuclear weapons in the late 1960's (with the help of a "peaceful" nuclear reactor provided by France, and with the tacit approval of the United States) and the country is now believed to possess 100-150 of them, including neutron bombs. Israel's policy is one of visibly possessing nuclear weapons while denying their existence.

South Africa, with the help of Israel and France, also weaponized its civil nuclear program, and it tested nuclear weapons in the Indian Ocean in 1979. In 1991 however, South Africa destroyed its nuclear weapons and signed the Nuclear Non-Proliferation Treaty.

India produced what it described as a "peaceful nuclear explosion" in 1974. By 1989 Indian scientists were making efforts to purify the lithium-6 isotope, a key component of the much more powerful thermonuclear bombs. In 1998, India conducted underground tests of nuclear weapons, and is now believed to have roughly 60 warheads, constructed from Pu-239 produced in "peaceful" reactors.

Pakistan's efforts to obtain nuclear weapons were spurred by India's 1974 "peaceful nuclear explosion". As early as 1970, the laboratory of Dr. Abdul Qadeer Khan, (a metallurgist who was to become Pakistan's leading nuclear bomb maker) had been able to obtain from a Dutch firm the high-speed ultracentrifuges needed for uranium enrichment. With unlimited financial support and freedom from auditing requirements, Dr. Khan purchased restricted items needed for nuclear weapon construction from companies in Europe and the United States. In the process, Dr. Khan became an extremely wealthy man. With additional help from China, Pakistan was ready to test five nuclear weapons in 1998.

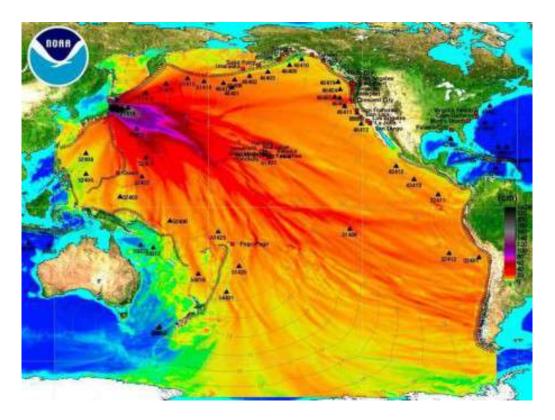


Figure 4.3: Radioactive contamination from the Fukushima disaster is spreading through the food chain of marine life throughout the Pacific region.



Figure 4.4: The Israeli nuclear technician and whistleblower Mordechai Vanunu called public attention to Israel's nuclear weapons while on a trip to England. He was lured to Italy by a Mossad "honey trap", where he was drugged, kid-napped and transported to Israel by Mossad.



Figure 4.5: Vanunu was imprisoned for 18 years, during 11 of which he was held in solitary confinement and subjected to psychological torture, such as not being allowed to sleep for long periods.

4.11. ATOMS FOR PEACE?

The Indian and Pakistani nuclear bomb tests, conducted in rapid succession, presented the world with the danger that these devastating weapons would be used in the conflict over Kashmir. Indeed, Pakistan announced that if a war broke out using conventional weapons, Pakistan's nuclear weapons would be used "at an early stage".

In Pakistan, Dr. A.Q. Khan became a great national hero. He was presented as the person who had saved Pakistan from attack by India by creating Pakistan's own nuclear weapons. In a Washington Post article (1 February, 2004) Pervez Hoodbhoy wrote: "Nuclear nationalism was the order of the day as governments vigorously promoted the bomb as the symbol of Pakistan's high scientific achievement and self-respect..." Similar manifestations of nuclear nationalism could also be seen in India after India's 1998 bomb tests.

Early in 2004, it was revealed that Dr. Khan had for years been selling nuclear secrets and equipment to Libya, Iran and North Korea, and that he had contacts with Al Qaeda. However, observers considered that it was unlikely that Khan would be tried, since a trial might implicate Pakistan's army as well as two of its former prime ministers.

There is a danger that Pakistan's unpopular government may be overthrown, and that the revolutionists might give Pakistan's nuclear weapons to a subnational organization. This type of danger is a general one associated with nuclear proliferation. As more and more countries obtain nuclear weapons, it becomes increasingly likely that one of them will undergo a revolution, during the course of which nuclear weapons will fall into the hands of criminals or terrorists.

There is also a possibility that poorly-guarded fissionable material could fall into the hands of subnational groups, who would then succeed in constructing their own nuclear weapons. Given a critical mass of highly-enriched uranium, a terrorist group, or an organized criminal (Mafia) group, could easily construct a crude gun-type nuclear explosive device. Pu-239 is more difficult to use since it is highly radioactive, but the physicist Frank Barnaby believes that a subnational group could nevertheless construct a crude nuclear bomb (of the Nagasaki type) from this material.

We must remember the remark of U.N. Secretary General Kofi Annan after the 9/11/2001 attacks on the World Trade Center. He said, "This time it was not a nuclear explosion". The meaning of his remark is clear: If the world does not take strong steps to eliminate fissionable materials and nuclear weapons, it will only be a matter of time before they will be used in terrorist attacks on major cities, or by organized criminals for the purpose of extortion. Neither terrorists nor organized criminals can be deterred by the threat of nuclear retaliation, since they have no territory against which such retaliation could be directed. They blend invisibly into the general population. Nor can a "missile defense system" prevent criminals or terrorists from using nuclear weapons, since the weapons can be brought into a port in any one of the hundreds of thousands of containers that enter on ships each year, a number far too large to be checked exhaustively.

Finally we must remember that if the number of nations possessing nuclear weapons becomes very large, there will be a greatly increased chance that these weapons will be used in conflicts between nations, either by accident or through irresponsible political decisions. The slogan "Atoms for Peace" has proved to be such a misnomer that it would be laughable if it were not so tragic. Nuclear power generation has been a terrible mistake. We must stop before we turn our beautiful earth into a radioactive wasteland.

4.12 Cancer threat from radioactive leaks at Hanford

On August 9, 1945, a nuclear bomb was dropped on the Japanese city of Nagasaki. Within a radius of one mile, destruction was total. People were vaporized so that the only shadows on concrete pavements were left to show where they had been. Many people outside the radius of total destruction were trapped in their collapsed houses, and were burned alive by the fire that followed. By the end of 1945, an estimated 80,000 men, women, young children, babies and old people had died as a result of the bombing. As the years passed more people continued to die from radiation sickness.

Plutonium for the bomb that destroyed Nagasaki had been made at an enormous nuclear reactor station located at Hanford in the state of Washington. During the Cold War, the reactors at Hanford produced enough weapons-usable plutonium for 60,000 nuclear weapons. The continued existence of plutonium and highly-enriched uranium-235 in the stockpiles of nuclear weapons states hangs like a dark cloud over the future of humanity. A full scale thermonuclear war would be the ultimate ecological catastrophe, threatening to make the world permanently uninhabitable.

Besides playing a large role in the tragedy of Nagasaki, the reactor complex at Hanford has damaged the health of many thousands of Americans. The prospects for the future are even worse. Many millions of gallons of radioactive waste are held in Hanford's aging storage tanks, the majority of which have exceeded their planned lifetimes. The following quotations are taken from a Wikipedia article on Hanford, especially the section devoted to ecological concerns:

"A huge volume of water from the Columbia River was required to dissipate the heat produced by Hanford's nuclear reactors. From 1944 to 1971, pump systems drew cooling water from the river and, after treating this water for use by the reactors, returned it to the river. Before being released back into the river, the used water was held in large tanks known as retention basins for up to six hours. Longer-lived isotopes were not affected by this retention, and several tetrabecquerels entered the river every day. These releases were kept secret by the federal government. Radiation was later measured downstream as far west as the Washington and Oregon coasts."

"The plutonium separation process also resulted in the release of radioactive isotopes into the air, which were carried by the wind throughout southeastern Washington and into parts of Idaho, Montana, Oregon and British Colombia. Downwinders were exposed to radionuclide's, particularly Iodine 131... These radionuclide's filtered into the food chain via contaminated fields where dairy cows grazed; hazardous fallout was ingested by communities who consumed the radioactive food and drank the milk. Most of these airborne releases were a part of Hanford's routine operations, while a few of the larger releases occurred in isolated incidents." "In response to an article in the Spokane Spokesman Review in September 1985, the Department of Energy announced its intent to declassify environmental records and in February, 1986 released to the public 19,000 pages of previously unavailable historical documents about Hanford's operations. The Washington State Department of Health collaborated with the citizen-led Hanford Health Information Network (HHIN) to publicize data about the health effects of Hanford's operations. HHIN reports concluded that residents who lived downwind from Hanford or who used the Columbia River downstream were exposed to elevated doses of radiation that placed them at increased risk for various cancers and other diseases."

"The most significant challenge at Hanford is stabilizing the 53 million U.S. Gallons (204,000 m3) of high-level radioactive waste stored in 177 underground tanks. About a third of these tanks have leaked waste into the soil and groundwater. As of 2008, most of the liquid waste has been transferred to more secure double-shelled tanks; however, 2.8 million U.S. Gallons (10,600 m3) of liquid waste, together with 27 million U.S. gallons (100,000 m3) of salt cake and sludge, remains in the single-shelled tanks. That waste was originally scheduled to be removed by 2018. The revised deadline is 2040. Nearby aquifers contain an estimated 270 billion U.S. Gallons (1 billion m3) of contaminated groundwater as a result of the leaks. As of 2008, 1 million U.S. Gallons (4,000 m3) of highly radioactive waste is traveling through the groundwater toward the Columbia River."

The documents made public in 1986 revealed that radiation was intentionally and secretly released by the plant and that people living near to it acted as unknowing guinea pigs in experiments testing radiation dangers. Thousands of people who live in the vicinity of the Hanford Site have suffered an array of health problems including thyroid cancers, autoimmune diseases and reproductive disorders that they feel are the direct result of these releases and experiments.

In thinking about the dangers posed by leakage of radioactive waste, we should remember that many of the dangerous radioisotopes involved have half-lives of hundreds of thousands of years. Thus, it is not sufficient to seal them into containers that will last for a century or even a millennium. We must find containers that will last for a hundred thousand years or more, longer than any human structure has ever lasted. This logic has lead Finland to deposit its radioactive waste in a complex of underground tunnels carved out of solid rock. But looking ahead for a hundred thousand years involves other problems: If humans survive for that long, what language will they speak? Certainly not the languages of today. How can we warn them that the complex of tunnels containing radioactive waste is a death trap? The reader is urged to see a film exploring these problems, "Into Eternity", by the young Danish film-maker Michael Madsen. Here is the link: http://dotsub.com/view/8e40ebda-5966-4212-9b96-6abbce3c6577.

We have already gone a long way towards turning our beautiful planet earth into a nuclear wasteland. In the future, let us be more careful, as guardians of a precious heritage, the natural world and the lives of all future generations.

4.13 An accident waiting to happen

In Stanley Kubrick's film, "Dr. Strangelove", a paranoid ultra-nationalist brigadier general, Jack D. Ripper, orders a nuclear attack on the Soviet Union because he believes that the Soviets are using water fluoridation as a means to rob Americans of their "precious bodily fluids". Efforts are made to recall the US bombers, but this proves to be impossible, and the attack triggers the Soviet "Doomsday Machine". The world is destroyed.

Kubrick's film is a black comedy, and we all laugh at it, especially because of the brilliant performance of Peter Sellers in multiple roles. Unfortunately, however, the film comes uncomfortably close to reality. An all-destroying nuclear war could very easily be started by an insane or incompetent person whose hand happens to be on the red button.

This possibility (or probability) has recently come to public attention through newspaper articles revealing that 11 of the officers responsible for launching US nuclear missiles have been fired because of drug addiction. Furthermore, a larger number of missile launch officers were found to be cheating on competence examinations. Three dozen officers were involved in the cheating ring, and some reports state that an equal number of others may have known about it., and remained silent. Finally, it was shown that safety rules were being deliberately ignored. The men involved, were said to be "burned out".

According to an article in The Guardian (Wednesday, 15 January, 2014), "Revelations of misconduct and incompetence in the nuclear missile program go back at least to 2007, when six nuclear-tipped cruise missiles were accidentally loaded onto a B-52 bomber in Minot, North Dakota, and flown to a base in Louisiana."

"Last March, military inspectors gave officers at the ICBM base in Minot the equivalent of a 'D' grade for launch mastery. Â A month later, 17 officers were stripped of their authority to launch the missiles."

"In October, a senior air force officer in charge of 450 ICBM's, major general Michael Carey, was fired after accusations of drunken misconduct during a summer trip to Moscow. An internal investigation found that Carey drank heavily, cavorted with two foreign women and visited a nightclub called La Cantina, where Maj. Gen. Carey had alcohol and kept trying to get the band to let him play with them."

The possibility that a catastrophic nuclear war could be triggered by a madman gains force from the recent statements of Benjamin Netanyahu, who has said repeatedly that, with or without US help, Israel intends to attack Iran. Such an attack, besides being a war crime, would be literally insane.

If Netanyahu believes that a war with Iran would be short or limited, he is ignoring several very obvious dangers. Such a war would most probably escalate into a widespread general war in the Middle East. It could cause a revolution in Pakistan, and the new revolutionary government of Pakistan would be likely to enter the war on the side of Iran, bringing with it Pakistan's nuclear weapons. Russia and China, both staunch allies of Iran, might be drawn into the conflict. There is a danger that the conflict could escalate into a Third World War, where nuclear weapons might easily be used, either by accident or intentionally.



Figure 4.6: Peter Sellers (left) listens while Brigadier General Jack D. Ripper tells him about the Soviet conspiracy to steal his "precious bodily fluids".



Figure 4.7: Peter Sellers as Dr. Strangelove. He has to restrain his black-gloved crippled hand, which keeps trying to give a Nazi salute.



Figure 4.8: General Buck Turgidson (George C. Scott) struggles with the Russian Ambassador. Peter Sellers (right) playing the US President, rebukes them for fighting in the War Room.



Figure 4.9: Major T. "King" Kong rides a nuclear bomb on its way down, where it will trigger the Soviet Doomsday Machine and ultimately destroy the world.



Figure 4.10: Benjamin Netanyahu has stated repeatedly that, with or without US support, Israel will attack Iran, an action that could escalate uncontrollably into World War III.



China could do grave economic damage to the United States through its large dollar holdings. Much of the world's supply of petroleum passes through the Straits of Hormuz, and a war in the region could greatly raise the price of oil, triggering a depression that might rival or surpass the Great Depression of the 1920's and 1930's. \hat{A}

The probability of a catastrophic nuclear war occurring by accident is made greater by the fact that several thousand nuclear weapons are kept on "hair-trigger alert" with a quasi-automatic reaction time measured in minutes. There is a constant danger that a nuclear war will be triggered by an error in evaluating a signal on a radar screen.

4.14 Nuclear weapons are criminal! Every war is a crime!

War was always madness, always immoral, always the cause of unspeakable suffering, economic waste and widespread destruction, and always a source of poverty, hate, barbarism and endless cycles of revenge and counter-revenge. It has always been a crime for soldiers to kill people, just as it is a crime for murderers in civil society to kill people. No flag has ever been wide enough to cover up atrocities.

But today, the development of all-destroying modern weapons has put war completely beyond the bounds of sanity and elementary humanity.

Today, war is not only insane, but also a violation of international law. Both the United Nations Charter and the Nuremberg Principles make it a crime to launch an aggressive war. According to the Nuremberg Principles, every soldier is responsible for the crimes that he or she commits, even while acting under the orders of a superior officer.

Nuclear weapons are not only insane, immoral and potentially omnicidal, but also criminal under international law. In response to questions put to it by WHO and the UN General Assembly, the International Court of Justice ruled in 1996 that "the threat and use of nuclear weapons would generally be contrary to the rules of international law applicable in armed conflict, and particularly the principles and rules of humanitarian law." The only possible exception to this general rule might be "an extreme circumstance of self-defense, in which the very survival of a state would be at stake". But the Court refused to say that even in this extreme circumstance the threat or use of nuclear weapons would be legal. It left the exceptional case undecided. In addition, the Court added unanimously that "there exists an obligation to pursue in good faith and bring to a conclusion negotiations leading to nuclear disarmament in all its aspects under strict and effective international control."

Can we not rid ourselves of both nuclear weapons and the institution of war itself? We must act quickly and resolutely before our beautiful world and everything that we love are reduced to radioactive ashes.

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137

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Chapter 5

THE CUBAN MISSILE CRISIS

5.1 JFK Presidential Library's account

Below is an account of the Bay of Pigs Invasion, quoted from the John F. Kennedy Presidential Library; $^{\rm 1}$

"On April 17, 1961, 1,400 Cuban exiles launched what became a botched invasion at the Bay of Pigs on the south coast of Cuba.

"In 1959, Fidel Castro came to power in an armed revolt that overthrew Cuban dictator Fulgencio Batista. The US government distrusted Castro and was wary of his relationship with Nikita Khrushchev, the leader of the Soviet Union.

"Before his inauguration, John F. Kennedy was briefed on a plan by the Central Intelligence Agency (CIA) developed during the Eisenhower administration to train Cuban exiles for an invasion of their homeland. The plan anticipated that the Cuban people and elements of the Cuban military would support the invasion. The ultimate goal was the overthrow of Castro and the establishment of a non-communist government friendly to the United States.

"President Eisenhower approved the program in March 1960. The CIA set up training camps in Guatemala, and by November the operation had trained a small army for an assault landing and guerilla warfare.

"José Miró Cardona led the anti-Castro Cuban exiles in the United States. A former member of Castro's government, he was the head of the Cuban Revolutionary Council, an exile committee. Cardona was poised to take over the provisional presidency of Cuba if the invasion succeeded.

"Despite efforts of the government to keep the invasion plans covert, it became common knowledge among Cuban exiles in Miami. Through Cuban intelligence, Castro learned of the guerilla training camps in Guatemala as early as October 1960, and the press reported widely on events as they unfolded.

¹https://www.jfklibrary.org/learn/about-jfk/jfk-in-history/the-bay-of-pigs



Figure 5.1: Che Guevara (left) and Castro, photographed by Alberto Korda in 1961.

"Shortly after his inauguration, in February 1961, President Kennedy authorized the invasion plan. But he was determined to disguise U.S. support. The landing point at the Bay of Pigs was part of the deception. The site was a remote swampy area on the southern coast of Cuba, where a night landing might bring a force ashore against little resistance and help to hide any U.S. involvement. Unfortunately, the landing site also left the invading force more than 80 miles from refuge in Cuba's Escambray Mountains, if anything went wrong.

"The original invasion plan called for two air strikes against Cuban air bases. A 1,400-man invasion force would disembark under cover of darkness and launch a surprise attack. Paratroopers dropped in advance of the invasion would disrupt transportation and repel Cuban forces. Simultaneously, a smaller force would land on the east coast of Cuba to create confusion.

"The main force would advance across the island to Matanzas and set up a defensive position. The United Revolutionary Front would send leaders from South Florida and establish a provisional government. The success of the plan depended on the Cuban population joining the invaders.

"The first mishap occurred on April 15, 1961, when eight bombers left Nicaragua to bomb Cuban airfields.

"The CIA had used obsolete World War II B-26 bombers, and painted them to look like Cuban air force planes. The bombers missed many of their targets and left most of Castro's air force intact. As news broke of the attack, photos of the repainted U.S. planes became public and revealed American support for the invasion. President Kennedy cancelled a second air strike.

"On April 17, the Cuban-exile invasion force, known as Brigade 2506, landed at beaches along the Bay of Pigs and immediately came under heavy fire. Cuban planes strafed the invaders, sank two escort ships, and destroyed half of the exile's air support. Bad weather hampered the ground force, which had to work with soggy equipment and insufficient ammunition.

"Over the next 24 hours, Castro ordered roughly 20,000 troops to advance toward the beach, and the Cuban air force continued to control the skies. As the situation grew increasingly grim, President Kennedy authorized an "airumbrella" at dawn on April 19 - six unmarked American fighter planes took off to help defend the brigade's B-26 aircraft flying. But the B-26s arrived an hour late, most likely confused by the change in time zones between Nicaragua and Cuba. They were shot down by the Cubans, and the invasion was crushed later that day.

"Some exiles escaped to the sea, while the rest were killed or rounded up and imprisoned by Castro's forces. Almost 1,200 members of Brigade 2506 surrendered, and more than 100 were killed.

"The brigade prisoners remained in captivity for 20 months, as the United States negotiated a deal with Fidel Castro. Attorney General Robert F. Kennedy made personal pleas for contributions from pharmaceutical companies and baby food manufacturers, and Castro eventually settled on \$53 million worth of baby food and medicine in exchange for the prisoners.

"On December 23, 1962, just two months after the end of the Cuban Missile Crisis, a plane containing the first group of freed prisoners landed in the United States. A week later, on Saturday, December 29, surviving brigade members gathered for a ceremony in Miami's Orange Bowl, where the brigade's flag was handed over to President Kennedy. "I can assure you," the president promised, "that this flag will be returned to this brigade in a free Havana."

"The disaster at the Bay of Pigs had a lasting impact on the Kennedy administration. Determined to make up for the failed invasion, the administration initiated Operation Mongoose - a plan to sabotage and destabilize the Cuban government and economy, which included the possibility of assassinating Castro."

5.2 Castro asks Khruschev for defensive help

The Bay of Pigs Invasion contained the seeds of the Cuban Missile Crisis, during which the world came extremely close to an all-destroying thermonuclear war. Fearing another US invasion, Fidel Castro asked Nikita Khruschev for help in defending Cuba. Khruschev responded by sending a number if intermediate-range ballistic missiles to Cuba. These were photographed by a high-altitude U2 spy plane flying over Cuba, and the Kennedy administration went into an alarm mode. The details of what happened will be described in the next chapter.

5.3 The world came close to thermonuclear destruction

Here are some quotations from Wikipedia's article on the Cuban Missile Crisis:

The Cuban Missile Crisis, also known as the October Crisis of 1962 (Spanish: Crisis de Octubre), the Caribbean Crisis... was a 13-day (October 16-28, 1962) confrontation between the United States and the Soviet Union initiated by Soviet ballistic missile deployment in Cuba. The confrontation is often considered the closest the Cold War came to escalating into a full-scale nuclear war.

In response to the failed Bay of Pigs Invasion of 1961 and the presence of American Jupiter ballistic missiles in Italy and Turkey, Soviet leader Nikita Khrushchev agreed to Cuba's request to place nuclear missiles on the island to deter a future invasion. An agreement was reached during a secret meeting between Khrushchev and Fidel Castro in July 1962, and construction of a number of missile launch facilities started later that summer. Meanwhile, the 1962 United States elections were under way, and the White House had denied charges for months that it was ignoring dangerous Soviet missiles 90 miles (140 km) from Florida. The missile preparations were confirmed when an Air Force U-2 spy plane produced clear photographic evidence of medium-range (SS-4) and intermediate-range (R-14) ballistic missile facilities.

When this was reported to President John F. Kennedy he then convened a meeting of the nine members of the National Security Council and five other key advisers in a group that became known as the Executive Committee of the National Security Council (EXCOMM). After consultation with them, Kennedy ordered a naval blockade on October 22 to prevent further missiles from reaching Cuba. The US announced it would not permit offensive weapons to be delivered to Cuba and demanded that the weapons already in Cuba be dismantled and returned to the Soviet Union.

After several days of tense negotiations, an agreement was reached between Kennedy and Khrushchev. Publicly, the Soviets would dismantle their offensive weapons in Cuba and return them to the Soviet Union, subject to United Nations verification, in exchange for a US public declaration and agreement to avoid invading Cuba again. Secretly, the United States agreed that it would dismantle all US-built Jupiter MRBMs, which had been deployed in Turkey against the Soviet Union; there has been debate on whether or not Italy was included in the agreement as well.

When all offensive missiles and Ilyushin Il-28 light bombers had been withdrawn from Cuba, the blockade was formally ended on November 21, 1962. The negotiations between the United States and the Soviet Union pointed out the necessity of a quick, clear, and direct communication line between the two Superpowers. As a result, the Moscow-Washington hotline was established. A series of agreements later reduced US-Soviet tensions for several years until both parties began to build their nuclear arsenals even further.

5.4 The Joint Chiefs of Staff advocate invading Cuba

One of the circumstances that made the Cuban Missile Crisis so dangerous was the fact that U.S. military leaders advocated an invasion of Cuba. Luckily Kennedy rejected this idea. Here are more quotations from the Wikipedia article:

The Joint Chiefs of Staff unanimously agreed that a full-scale attack and invasion was the only solution. They believed that the Soviets would not attempt to stop the US from conquering Cuba. Kennedy was sceptical:

'They, no more than we, [Kennedy said] can let these things go by without doing something. They can't, after all their statements, permit us to take out their missiles, kill a lot of Russians, and then do nothing. If they don't take action in Cuba, they certainly will in Berlin'...

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Figure 5.2: More than 100 US-built missiles having the capability to strike Moscow with nuclear warheads were deployed in Italy and Turkey in 1961.

After several days of tense negotiations, an agreement was reached between Kennedy and Khrushchev: publicly, the Soviets would dismantle their offensive weapons in Cuba and return them to the Soviet Union, subject to United Nations verification, in exchange for a US public declaration and agreement to not invade Cuba again. Secretly, the United States agreed with the Soviets that it would dismantle all of the Jupiter MRBMs which had been deployed to Turkey against the Soviet Union. There has been debate on whether or not Italy was included in the agreement as well. While the Soviets dismantled their missiles, some Soviet bombers remained in Cuba, and the United States kept the naval quarantine in place until November 20, 1962.



Figure 5.3: A U-2 reconnaissance photograph of Cuba, showing Soviet nuclear missiles, their transports and tents for fueling and maintenance.

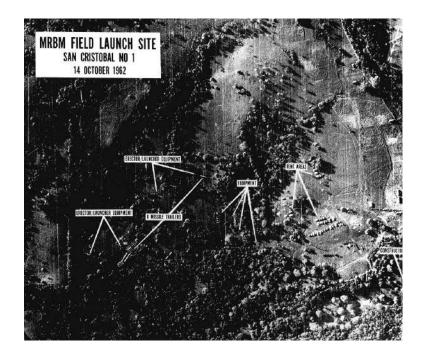


Figure 5.4: One of the first U-2 reconnaissance images of missile bases under construction shown to President Kennedy on the morning of October 16, 1962.



Figure 5.5: President Kennedy meets in the Oval Office with General Curtis LeMay and the reconnaissance pilots who found the missile sites in Cuba.



Figure 5.6: President Kennedy and Secretary of Defense McNamara in an EX-COMM meeting.



Figure 5.7: President Kennedy meets with Soviet Foreign Minister Andrei Gromyko in the Oval Office (October 18, 1962).



Figure 5.8: A US Navy P-2H Neptune of VP-18 flying over a Soviet cargo ship with crated Il-28s on deck during the Cuban Crisis.



Figure 5.9: President Kennedy signs the Proclamation for Interdiction of the Delivery of Offensive Weapons to Cuba at the Oval Office on October 23, 1962.

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Chapter 6 THE VIETNAM WAR

6.1 McNamara's Evil Lives On

Here are some quotations from an article by Robert Sheer entitled *McNamara's Evil Lives* On, published in The Nation on July 8, 2008.¹

Why not speak ill of the dead?

Robert McNamara, who died this week, was a complex man - charming even, in a blustery way, and someone I found quite thoughtful when I interviewed him. In the third act of his life he was often an advocate for enlightened positions on world poverty and the dangers of the nuclear arms race. But whatever his better nature, it was the stark evil he perpetrated as secretary of defense that must indelibly frame our memory of him.

To not speak out fully because of respect for the deceased would be to mock the memory of the millions of innocent people McNamara caused to be maimed and killed in a war that he later freely admitted never made any sense. Much has been made of the fact that he recanted his support for the war, but that came 20 years after the holocaust he visited upon Vietnam was over.

Is holocaust too emotionally charged a word? How many millions of dead innocent civilians does it take to qualify labels like holocaust, genocide or terrorism? How many of the limbless victims of his fragmentation bombs and land mines whom I saw in Vietnam during and after the war? Or are America's leaders always to be exempted from such questions? Perhaps if McNamara had been held legally accountable for his actions, the architects of the Iraq debacle might have paused.

Instead, McNamara was honored with the Medal of Freedom by President Lyndon Johnson, to whom he had written a private memo nine months earlier offering this assessment of their Vietnam carnage: 'The picture of the world's greatest superpower killing or seriously injuring 1,000 noncombatants a week,

¹https://www.thenation.com/article/archive/mcnamaras-evil-lives/

while trying to pound a tiny backward nation into submission on an issue whose merits are hotly disputed, is not a pretty one.'

He knew it then, and, give him this, the dimensions of that horror never left him. When I interviewed him for the Los Angeles Times in 1995, after the publication of his confessional memoir, his assessment of the madness he had unleashed was all too clear:

'Look, we dropped three to four times the tonnage on that tiny little area as were dropped by the Allies in all of the theaters in World War II over a period of five years. It was unbelievable. We killed - there were killed - 3,200,000 Vietnamese, excluding the South Vietnamese military. My God! The killing, the tonnage - it was fantastic. The problem was that we were trying to do something that was militarily impossible - we were trying to break the will; I don't think we can break the will by bombing short of genocide.'

We - no, he - couldn't break their will because their fight was for national independence. They had defeated the French and would defeat the Americans who took over when French colonialists gave up the ghost. The war was a lie from the first. It never had anything to do with the freedom of the Vietnamese (we installed one tyrant after another in power), but instead had to do with our irrational cold war obsession with 'international communism.' Irrational, as President Richard Nixon acknowledged when he embraced detente with the Soviet communists, toasted China's fierce communist Mao Tse-tung and then escalated the war against 'communist' Vietnam and neutral Cambodia.

It was always a lie and our leaders knew it, but that did not give them pause. Both Johnson and Nixon make it quite clear on their White House tapes that the mindless killing, McNamara's infamous body count, was about domestic politics and never security.

The lies are clearly revealed in the Pentagon Papers study that McNamara commissioned, but they were made public only through the bravery of Daniel Ellsberg. Yet when Ellsberg, a former Marine who had worked for McNamara in the Pentagon, was in the docket facing the full wrath of Nixon's Justice Department, McNamara would lift not a finger in his defense. Worse, as Ellsberg reminded me this week, McNamara threatened that if subpoenaed to testify at the trial by Ellsberg's defense team, 'I would hurt your client badly.'

Not as badly as those he killed or severely wounded. Not as badly as the almost 59,000 American soldiers killed and the many more horribly hurt. One of them was the writer and activist Ron Kovic, who as a kid from Long Island was seduced by McNamara's lies into volunteering for two tours in Vietnam. Eventually, struggling with his mostly paralyzed body, he spoke out against the war in the hope that others would not have to suffer as he did (and still does). Meanwhile, McNamara maintained his golden silence, even as Richard Nixon managed to kill and maim millions more. What McNamara did was evil - deeply so.

6.2 The Pentagon Papers

Wikipedia states that:

The Pentagon Papers, officially titled *Report of the Office of the Secretary* of Defense Vietnam Task Force, is a United States Department of Defense history of the United States' political and military involvement in Vietnam from 1945 to 1967. The papers were released by Daniel Ellsberg, who had worked on the study; they were first brought to the attention of the public on the front page of The New York Times in 1971.A 1996 article in The New York Times said that the Pentagon Papers had demonstrated, among other things, that the Johnson Administration 'systematically lied, not only to the public but also to Congress.'

More specifically, the papers revealed that the U.S. had secretly enlarged the scope of its actions in the Vietnam War with the bombings of nearby Cambodia and Laos, coastal raids on North Vietnam, as well as Marine Corps attacks, none of which were reported in the mainstream media. For his disclosure of the Pentagon Papers, Ellsberg was initially charged with conspiracy, espionage, and theft of government property, but the charges were later dismissed after prosecutors investigating the Watergate scandal discovered that the staff members in the Nixon White House had ordered the so-called White House Plumbers to engage in unlawful efforts to discredit Ellsberg...

To ensure the possibility of public debate about the papers' content, on June 29, US Senator Mike Gravel, an Alaska Democrat, entered 4,100 pages of the papers into the record of his Subcommittee on Public Buildings and Grounds. These portions of the papers, which were edited for Gravel by Howard Zinn and Noam Chomsky, were subsequently published by Beacon Press, the publishing arm of the Unitarian Universalist Association of Congregations. A federal grand jury was subsequently empaneled to investigate possible violations of federal law in the release of the report. Leonard Rodberg, a Gravel aide, was subpoenaed to testify about his role in obtaining and arranging for publication of the Pentagon Papers. Gravel asked the court (in Gravel v. United States) to quash the subpoena on the basis of the Speech or Debate Clause in Article I, Section 6 of the United States Constitution.

Daniel Ellesberg believed that when U.S. citizens discovered that the Vietnam War was based on lies, the war would end. However, it continued for many more years.



Figure 6.1: Victems of the Mai Lai Massacre.

6.2. THE PENTAGON PAPERS



Figure 6.2: Napalm burn victims during the war being treated at the 67th Combat Support Hospital. 1967-1968 Innocent children become burn victims in the Vietnam War.



Figure 6.3: Frightened children flee from an air attack in Vietnam.

6.3 Effects of Agent Orange

Wikipedia states that:

"Up to four million people in Vietnam were exposed to the defoliant. The government of Vietnam says as many as three million people have suffered illness because of Agent Orange,[4] and the Red Cross of Vietnam estimates that up to one million people are disabled or have health problems as a result of Agent Orange contamination. The United States government has described these figures as unreliable, while documenting higher cases of leukemia, Hodgkin's lymphoma, and various kinds of cancer in exposed US military veterans. An epidemiological study done by the Centers for Disease Control and Prevention showed that there was an increase in the rate of birth defects of the children of military personnel as a result of Agent Orange. Agent Orange has also caused enormous environmental damage in Vietnam. Over 3,100,000 hectares (31,000 km2 or 11,969 mi2) of forest were defoliated. Defoliants eroded tree cover and seedling forest stock, making reforestation difficult in numerous areas. Animal species diversity sharply reduced in contrast with unsprayed areas."

SELLING WEAPONS, SELLING WAR



Figure 6.4: Nguyen Xuan Minh lies in a crib at the Tu Du Hospital May 2, 2005 in Ho Chi Minh City, Vietnam.

6.3. EFFECTS OF AGENT ORANGE



Figure 6.5: A disabled and malformed victim of foliant Agent Orange, begs on the streets of Saigon to make a living, 1996.

6.4 Bombing of Cambodia and Laos

According to an article by Jessica Pearce Rotondi entitled Why Laos Has Been Bombed More Than Any Other Country²,

"The U.S. bombing of Laos (1964-1973) was part of a covert attempt by the CIA to wrest power from the communist Pathet Lao, a group allied with North Vietnam and the Soviet Union during the Vietnam War.

"The officially neutral country became a battleground in the Cold War between the United States and Soviet Union, with American bombers dropping over two million tons of cluster bombs over Laos - more than all the bombs dropped during WWII combined. Today, Laos is the most heavily bombed nation in history. Here are facts about the so-called secret war in Laos.

"Laos is a landlocked country bordered by China and Myanmar to the North, Vietnam to the East, Cambodia to the South and Thailand and the Mekong River to the West.

"Its proximity to Mao Zedong's China made it critical to Dwight D. Eisenhower's Domino Theory of keeping communism at bay. 'If Laos were lost, the rest of Southeast Asia would follow,' Eisenhower told his National Security Council. On the day of his farewell address in 1961, President Eisenhower approved the CIA's training of anti-communist forces in the mountains of Laos. Their mission: To disrupt communist supply routes across the Ho Chi Minh Trail to Vietnam.

"Eisenhower's successors in the White House: John F. Kennedy, Lyndon B. Johnson and Richard Nixon, all approved escalating air support for the guerrilla fighters, but not publicly. The 1962 International Agreement on the Neutrality of Laos, signed by China, the Soviet Union, Vietnam, the United States and 10 other countries, forbid signees from directly invading Laos or establishing military bases there. The secret war in Laos had begun...

"In Laos, the legacy of U.S. bombs continues to wreak havoc. Since 1964, more than 50,000 Lao have been killed or injured by U.S. bombs, 98 percent of them civilians. An estimated 30 percent of the bombs dropped on Laos failed to explode upon impact, and in the years since the bombing ended, 20,000 people have been killed or maimed by the estimated 80 million bombs left behind."

By 1975, one tenth of the population of Laos had been killed by the bombs, and a quarter of the population were refugees.

²https://www.history.com/news/laos-most-bombed-country-vietnam-war

Cambodia

Here are some quotations from an article by Maximillian Wechsler entitled America's 'Secret War' and the Bombing of Southeast Asia³:

"On March 18, 1969, USAF Strategic Air Command (SAC) B-52 bombers began carpet bombing Cambodia on the order of President Nixon. The overall covert operation was code-named 'Operation Menu', with various phases named 'Breakfast', 'Lunch', 'Dinner', 'Snack', 'Supper' and 'Dessert'.

"President Nixon ordered the campaign without consulting Congress and even kept it secret from top military officials. Five members of Congress were informed several months after the start of Operation Menu, but it was kept secret from the American people until The New York Times broke the story in May 1969. Henry Kissinger, President Nixon's National Security Adviser, was reportedly outraged over the leaked information in the story and ordered the FBI to wiretap the phones of top White House aides and reporters to find the source.

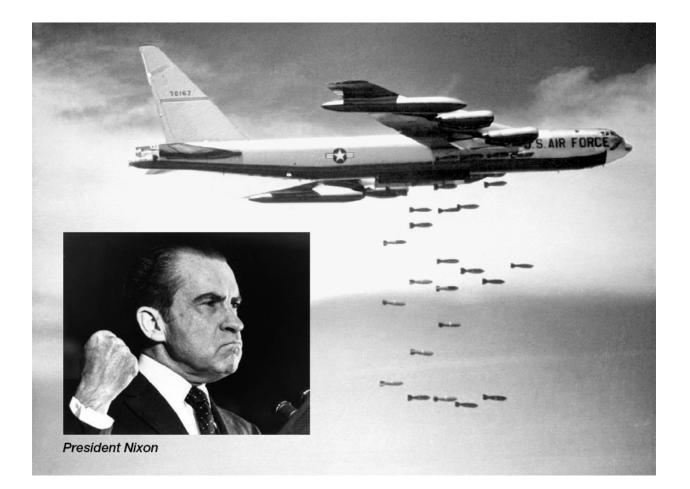
"More reports of the secret bombing campaign surfaced in the press and records of Congressional proceedings, but it was not until 2000 that official the USAF records of US bombing activity over Indochina from 1964 to 1973 were declassified by President Bill Clinton.

"Some sources say that during the first phase of the bombings lasting until April 1970, 'Operation Breakfast', the SAC conducted 3,630 sorties and dropped 110,000 tons of bombs and that in the entire four-year campaign the US dropped about 540,000 tons of bombs. In the book Bombs Over Cambodia, historians Ben Kiernan and Taylor Owen state that, based on their analysis of the declassified documents, 2,756,941 tons of ordnance was dropped during Operation Menu, more than the US dropped on Japan during World War II.

"The authors also say that US planes flew 230,516 sorties over 113,716 sites. Estimates of casualties vary widely as well, but it is believed that somewhere between 100,000 and 600,000 civilians died in the bombing and two million became homeless. Some sources say that hundreds of thousands more Cambodians died from the effects of displacement, illness or starvation as a direct result of the bombings.

"The carpet bombing of Cambodia lasted until August 1973. It devastated the countryside and the chaos and upheaval it unleashed played a big part in the installation of the genocidal Khmer Rouge regime led by Pol Pot. The Khmer Rouge was responsible for the deaths of up to two million Cambodians through executions, forced labour and starvation."

 $^{{}^{3}}https://www.the bigchilli.com/feature-stories/americas-secret-war-and-the-bombing-of-southeast-asia$





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Chapter 7

THE "WAR AGAINST TERROR"

7.1 Perpetual war

The military-industrial complex needs enemies. Without them it would wither. Thus at the end of the Second World War, this vast power complex was faced with a crisis, but it was saved by the discovery of a new enemy: communism. However, at the end of the Cold War there was another terrible crisis for the military establishment, the arms manufacturers and their supporters in research, government and the mass media. People spoke of the "peace dividend", i.e., constructive use of the trillion dollars that the world wastes each year on armaments. However, just in time, the military-industrial complex was saved from the nightmare of the "peace dividend" by the September 11 attacks on New York and Washington.

No matter that the attacks were crimes committed by individuals rather than acts of war, crimes against which police action rather than military action would have been appropriate. The Bush Administration (and CNN, Fox, etc.) quickly proclaimed that a state of war existed, and that the rules of war were in effect. The Cold War was replaced with the "War on Terrorism".

To a large extent, this over-reaction to the events of 9/11/2001 can be interpreted in terms of the needs of the military-industrial complex against which Eisenhower had warned. Without a state of war and without enemies, this vast conglomerate of organizations and pressure groups would have languished.

If the aim of the "War on Terror" had been to rid the world of the threat of terrorism, acts like illegal assassination using drones would have been counterproductive, since they create many more terrorists than they destroy. But since the real aim is to produce a state of perpetual war, thus increasing the profits of the military-industrial complex, such methods are the best imaginable. Urinating on Afghan corpses or burning the Koran or murderous night-time raids on civilian homes also help to promote the real goal: perpetual war.

Even the events that initiated the "War on Terror", seem to have been made worse than they otherwise might have been, in order to give a better excuse for invading Iraq, attacking Afghanistan, and attacking civil liberties. There is evidence that a number of highly placed officials in the US government knew as early as April 2001 that the World Trade Center might soon be attacked. The testimony given by CIA insider Susan Lindauer is very explicit about this point. There is also evidence that charges of thermite were placed on the steel structures of several buildings, to melt the steel and thus ensure collapse. Molten steel and traces of thermite were found in the ruins before these were sealed off from public scrutiny by the FBI.

The collapse of Building 7 (which was not hit by any aircraft) is particularly suspicious. Larry Silverstein, the leaseholder of the World Trade Center, said shortly afterwards in a PBS interview: "I remember getting a call from the fire department commander telling me that they were not sure that they would be able to contain the fire..." (and he said that) "I think that the smartest thing to do is to pull it." The phrase "pull it" is one used to speak of controlled demolition, and the subsequent free-falling collapse of Building 7 had all the earmarks of this process.

Architects and Engineers for 9/11 Truth, an organization of more than a thousand accredited architects and engineers, have produced a two hour documentary film pointing to evidence that the collapse of the World Trade Center buildings was due to explosive charges of thermite rather than to fire or the impact of airplanes ¹

For those who belong to the military-industrial complex, perpetual war is a blessing, but for the majority of the people of the world it is a curse. Since we who oppose war are the vast majority, can we not make our wills felt?

7.2 Are we being driven like cattle?

As we stand in line for security checks at airports, we may have the distinct feeling that we are being herded like cattle. Air travel has changed, and has become much less pleasant, since the fear of terrorism replaced the fear of communism as the excuse that governments give for diverting colossal sums of money from desperately needed social goals into the bottomless pit of war. Innocent grandmothers, and their grandchildren, are required to remove their shoes and belts. Everyone is treated like a criminal. It is a humiliating experience. We may well feel like dumb driven cattle; and the purpose of the charade is not so much to prevent airliners from being sabotaged as it is to keep the idea of terrorism fresh in our minds.

Is the threat of terrorism real? Or is it like the barking of a dog driving a herd? The threat of climate change is very real indeed. The threat to future global food security is real too. Already 11 million children die every year from malnutrition and poverty-related causes. The threat to human civilization and the biosphere posed by a possible Third World War is real. The threat of exhaustion of non-renewable resources and economic collapse is real. The dangers associated with our unstable fractional reserve banking system are also real. Beside these all too real threats to our future, the threat of terrorism is negligible.

¹https://topdocumentaryfilms.com/911-explosive-evidence-experts-speak-out/



Figure 7.1: Passengers waiting to be examined before boarding their flights.

Millions starve. Millions die yearly from preventable diseases. Millions die as a consequence of wars. Compared with these numbers, the total count of terrorist victims is vanishingly small. It is even invisible compared with the number of people killed yearly in automobile accidents.

Terrorism is an invented threat. Our military industrial complex invented it to take the place of the threat of communism after the end of the Cold War. They invented it so that they would be able to continue spending 1,700,000,000,000 dollars each year on armaments, an amount almost too large to be imagined.

So the people, the driven cattle, have been made to fear terrorism. How was this done? It was easy after 9/11. Could it be that the purpose of the 9/11 disaster was to make people fear terrorism, so that they could be more easily manipulated, more easily deprived of their civil rights, more easily driven into a war against Iraq? There is strong evidence that many highly placed governmental figures knew well in advanced that the World Trade Center would be attacked, and that they made the disaster much worse than it otherwise would have been. This evidence is available on the Internet. ²

²http://www.transcend.org/tms/2013/12/911-explosive-evidence-experts-speak-out/ https://www.youtube.com/watch?v=7OE3Adu4l0g http://www.youtube.com/watch?v=e-wXcJA-et0



Figure 7.2: Are we being driven like cattle? Is the true purpose of excessive security checks to make people believe that terrorism is a major danger?





Figure 7.3: Building 7 was not hit by any airplane. Suddenly, six hours after the collapse twin towers, it collapsed in what experts have testified to be a classic example of controlled demolition.



Figure 7.4: Molten steel pouring from one of the twin towers before its collapse.



Figure 7.5: The heat of an ordinary fire is far below the temperature needed to melt steel.

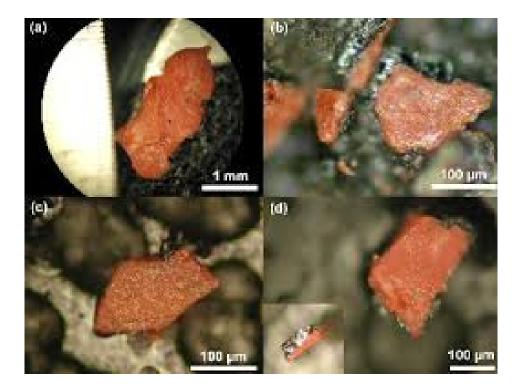


Figure 7.6: Many samples of dust were collected after the collapse of the World Trade Center buildings. In all of these samples, traces of nanothermite were found. Nanothermite is compound that produces intense heat when it is burned, and it can be used for melting steel.

7.3 Media exaggeration of attacks in Paris

For more than a week after the terrorist attacks in Paris on 13 November, 2015, every television news program of any kind was completely dominated by non-stop day-and-night coverage of the "breaking news". The attacks, in which 130 people were killed and 80-99 seriously injured, were presented by our mass media with such a concentration of hysteria that they blotted out every other type of news from the public consciousness. The rather small number of people killed or injured by the attackers did not seem to matter. Our corporate-controlled mass media succeeded in robbing us of our sense of proportion.

With the extremely important Climate Conference COP21 starting in the same city, Paris, on 30 November, we urgently need to regain our lost sense of proportion. Is terrorism a great danger to human civilization and the biosphere? Or is it something very small, that has been blow up to a completely disproportionate size by our perfidious mass media in order to sell wars, sell weapons, to undermine civil liberties, and to disenfranchise ordinary citizens?

Comparing terrorism with other risks

What are the real dangers? What is their comparative size, in terms of numbers of people involved? Science is unanimous in telling us that out-of-control climate change, thermonuclear war, and large-scale famine are the real threats.

Consider what would happen if the change from fossil fuels to 100% renewable energy is not completed within a few decades: We know from the geological record that there have been 5 mass extinction events during each of which more that half of all living organisms became extinct. The largest of these was the Permian-Triassic event, during which 96% of all marine species became extinct, together with 70% of all terrestrial vertebrates.

If we do not quickly shift from fossil fuels to renewable energy, we will be in danger of passing a tipping point, beyond which human efforts to control climate change will be useless because feed-back loops such as the albedo effect and the methane-hydrate feedback loop will have taken over. If we do not act quickly and globally to change from fossil fuels to renewable energy, there is a danger of a human-caused 6th mass extinction. The human species might survive such an event by moving to polar or high mountainous regions, but the global population would then be measured in millions rather than in billions. The family trees of most humans living today would die out. Added to this tragedy, would be the tragic loss of most of the animal and plant species which we value today and strive to protect.

Is a shift from fossil fuels to 100% renewable energy possible? Such a shift must come within a century or so because of the exhaustion of coal, oil and gas resources. However, it is vitally important that the change should come quickly, within a very few decades, to avoid a tipping point beyond which climate change would become uncontrollable. Hope that this energy revolution is indeed technically possible comes especially from the current extremely high rates of growth of wind and solar power. If these growth rates are maintained, the transition to renewable energy can be accomplished within two decades.

7.4. DRIVEN TOWARDS WAR BY FAKE THREATS

It is important that the governmental subsidies that are currently paid to fossil fuel corporations should be discussed at COP21. In 2011, these subsidies amounted to more than \$500 billion globally, compared with only \$88 billion given to support renewable energy initiatives. These proportions must be reversed. In fact, subsidies to fossil fuel corporations ought to be abolished entirely. Given a more level playing field, renewable energy can win simply by being cheaper than fossil fuels.

Let us turn next to the danger of thermonuclear war. Unless nuclear weapons are completely abolished, there will be a continual danger that a catastrophic war of this type may occur by accident or miscalculation. In any given year, this danger is finite, but over a long period of time, the chance that a disaster will not occur becomes vanishingly small. Such a war would be an environmental catastrophe, affecting neutral countries as well as belligerents. Agriculture might be damaged to such an extent that the resulting global famine could involve a large fraction of the world's human population.

Finally, we must consider the threat of a global famine partly due to climate change, but also due to explosively growing human populations and the end of fossil fuels, on which modern high-yield agriculture depends.

7.4 Driven towards war by fake threats

Are we being driven like cattle into another war, by another fake threat? Is Iran really a threat? It is a country which has not attacked any of its neighbors for a century, although it has frequently itself been attacked. Israel has 300 nuclear weapons, and the US has many thousands, yet they claim that Iran's civilian nuclear program is a threat. Is it a real threat, or are we being driven, like cattle, by a false threat.

The precipice towards which we are being driven is very dangerous indeed. There is a real danger that a military attack on Iran could escalate uncontrollably into World War III. As we approach the 100th anniversary of the start of World War I, we should remember that this catastrophic conflagration was started as a limited operation by Austria to punish the Serbian nationalists, but it escalated uncontrollably.

The Middle East is already a deeply troubled region, and it is a region in which the US and Israel cannot be said to be universally popular. Might not an attack on Iran initiate a revolution in Pakistan, thus throwing Pakistan's nuclear weapons into the conflict on the side of Iran? Furthermore, both China and Russia are staunch allies of Iran. Perhaps they would be drawn into the war. At the very least, China would certainly do economic damage to the US by means of its large dollar holdings. Furthermore, much of the world's supply of oil flows through the Straits Hormuz. A conflict in the region would probably stop this flow and send petroleum prices through the roof. The economic consequences would be disastrous.

Let us stop being driven like cattle by invented threats. Let us instead look at the very real dangers that threaten human civilization, and do our utmost to avoid them.



Figure 7.7: Much of the world's supply of oil flows through the Straits Hormuz. A war in the region would undoubtedly stop this flow, sending the price of oil into the stratosphere, with disastrous economic consequences.

7.5 The role of the media

Throughout history, art was commissioned by rulers to communicate, and exaggerate, their power, glory, absolute rightness etc, to the populace. The pyramids gave visual support to the power of the Pharaoh; portraits of rulers are a traditional form of propaganda supporting monarchies; and palaces were built as symbols of power.

Modern powerholders are also aware of the importance of propaganda. Thus the media are a battleground where reformers struggle for attention, but are defeated with great regularity by the wealth and power of the establishment. This is a tragedy because today there is an urgent need to make public opinion aware of the serious problems facing civilization, and the steps that are needed to solve these problems. The mass media could potentially be a great force for public education, but often their role is not only unhelpful - it is negative.

It is certainly possible to find a few television programs and newspaper articles that present the facts about climate change in a realistic way. For example *The Guardian* gives outstanding climate change coverage. However, the mass media could do very much more. One has to conclude that the media are neglecting their great responsibilities at a time of acute crisis for human civilization and the biosphere. The same can be said of our educational systems at both both the primary and advanced levels. We urgently need much more public education about the severe dangers that we face today.

7.6 Television as a part of our educational system

In the mid-1950's, television became cheap enough so that ordinary people in the industrialized countries could afford to own sets. During the infancy of television, its power was underestimated. The great power of television is due to the fact that it grips two senses simultaneously, both vision and hearing. The viewer becomes an almost-hypnotized captive of the broadcast.

In the 1950's, this enormous power, which can be used both for good and for ill, was not yet fully apparent. Thus insufficient attention was given to the role of television in education, in setting norms, and in establishing values. Television was not seen as an integral part of the total educational system. It is interesting to compare the educational systems of traditional cultures with those of modern industrial societies.

In traditional societies, multigenerational families often live together in the same dwelling. In general, there is a great deal of contact between grandparents and grandchildren, with much transmission of values and norms between generations. Old people are regarded with great respect, since they are considered to be repositories of wisdom, knowledge, and culture.

By contrast, modern societies usually favor nuclear families, consisting of only parents and children. Old people are marginalized. They live by themselves in communities or homes especially for the old. Their cultural education knowledge and norms are not valued because they are "out of date". In fact, during the life of a young person in one of the rapidly-changing industrial societies of the modern world, there is often a period when they rebel against the authority of their parents and are acutely embarrassed by their parents, who are "so old-fashioned that they don't understand anything".

Although the intergenerational transmission of values, norms, and culture is much less important in industrial societies than it is in traditional ones, modern young people of the West and North are by no means at a loss over where to find their values, fashions and role models. With every breath, they inhale the values and norms of the mass media. Totally surrounded by a world of television and film images, they accept this world as their own.

7.7 The mass media have failed us

The predicament of humanity today has been called "a race between education and catastrophe": How do the media fulfil this life-or-death responsibility? Do they give us insight? No, they give us pop music. Do they give us an understanding of the sweep of evolution and history? No, they give us sport. Do they give us an understanding of the ecological catastrophes that threaten our planet because of unrestricted growth of population and industries? No, they give us sit-coms and soap operas. Do they give us unbiased news? No, they give us news that has been edited to conform with the interests of powerful lobbys. Do they present us with the urgent need to leave fossil fuels in the ground? No, they do not, because this would offend the powerholders. Do they tell of the danger of passing tipping points after which human efforts to prevent catastrophic climate change will be useless? No, they give us programs about gardening and making food.

A consumer who subscribes to the "package" of broadcasts sold by a cable company can often search through all 95 channels without finding a single program that offers insight into the various problems that are facing the world today. What the viewer finds instead is a mixture of pro-establishment propaganda and entertainment. Meanwhile the neglected global problems are becoming progressively more severe.

In general, the mass media behave as though their role is to prevent the peoples of the world from joining hands and working to change the world and to save it from thermonuclear war, environmental catastrophes and threatened global famine. The television viewer sits slumped in a chair, passive, isolated, disempowered and stupefied. The future of the world hangs in the balance, the fate of children and grandchildren hangs in the balance, but the television viewer feels no impulse to work actively to change the world or to save it. The Roman emperors gave their people bread and circuses to numb them into political inactivity. The modern mass media seem to be playing a similar role.

7.8 Alternative media

Luckily, the mass media do not have a complete monopoly on public information. With a little effort, citizens who are concerned about the future can find alternative media. These include a large number of independent on-line news services that are supported by subscriber donations rather than by corporate sponsors. *YouTube* videos also represent an extremely important source of public information. Below we discuss a few outstanding people who have made extremely important *YouTube* videos on climate change.

7.9 George Orwell, we need your voice today!

A lower-upper middle class family and education

Eric Arthur Blair (1903-1950), better known by his pen name George Orwell, was the greatgrandson of Charles Blair, a wealthy country gentleman, and Lady Mary Fane, daughter of the Earl of Westmorland. Over the generations that separated Eric Blair from his greatgrandparents, some of the gentility remained but most of the wealth disappeared, and he described his family as being "lower-upper middle class".

Eric Blair was born in British India where his father was working, but when he was one year old his mother took the family to England. Eric attended a Catholic boarding school called St. Cyprians, where his work in history and his writing won him scholarships to both Wellington and Eton. He attended both schools, because at first there was no place available at Eton.

Burmese Days

While at Eton, Eric Blair paid more attention to extra-curricular activities than to his studies, and his family, who could not afford to send him to university without a scholarship, decided that he would never win one. Instead of attending a university, Eric Blair joined the Imperial Police. He chose Burma, where his maternal grandmother was still living.

After serving several years in Burma in positions of increasing responsibility, Orwell became seriously ill in 1927, and he was allowed to return to England. By this time, he had become disillusioned with colonialism. He now saw it as a system whereby the soldiers held the poor Indian or Burmese citizen down, while the merchant went through his pockets. Orwell described his experiences as a colonial police officer in his book, *Burmese Days*

Down and Out in Paris and London (1933)

After Orwell returned from Burma, he became interested in the lives of very poor people in Europe. While he was on a visit to Paris, all of his money was stolen. He could have written to his guardian in England to ask for help, but instead he decided to find out for himself what it was like to be completely destitute. Returning to London, he later continued his personal experiment with extreme poverty.

After living at the extreme lower edge of society for several years, Orwell described his experiences in *Down and Out in Paris and London*. Orwell's descriptions are so vivid and his sense of humor so sharp that the book is both riveting and enjoyable to read. Other excellent books by Orwell describing not quite so extreme poverty include *Keep the Aspidistra Flying* (1936), and *The road to Wigan Pier* (1937).

Homage to Catalonia (1938)

This book describes Orwell's experiences during the Spanish Civil War. He served as a soldier in the unsuccessful struggle to prevent Franco's fascist army from overthrowing the elected government.

Animal Farm (1945)

This brilliant satiric and allegorical novella reflects Orwell's disillusionment with Russia's post-revolutionary government under Stalin. Orwell saw Stalinism as a brutal dictatorship. In his essay *Why I Write* (1946) Orwell says that *Animal Farm* is the first book in which he tried "to fuse political purpose and artistic purpose into one whole".

At the start of *Animal Farm* an old boar called Major (Marx and/or Lenin ?) teaches the animals to sing *Beasts of England* (the *Internationale*?). Orwell describes the tune as being halfway between *La Cucaratcha* and *My Darling Clementine*. Here are the words of the song:

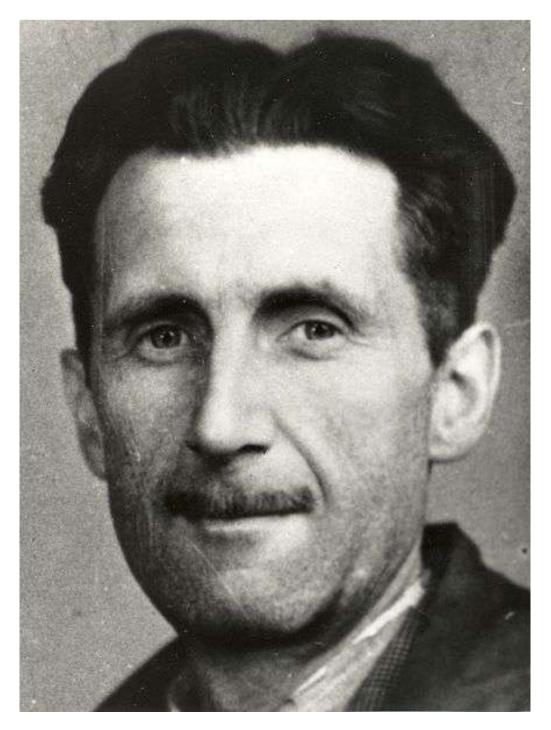


Figure 7.8: George Orwell (Wikipedia).

Beasts of England, Beasts of Ireland, Beasts of every land and clime, Hearken to my joyful tidings Of the Golden future time.

Soon or late the day is coming, Tyrant Man shall be o'erthrown, And the fruitful fields of England Shall be trod by beasts alone.

Rings shall vanish from our noses, And the harness from our back, Bit and spur shall rust forever, Cruel whips no more shall crack.

Riches more than mind can picture, Wheat and barley, oats and hay, Clover, beans, and mangel-wurzels Shall be ours upon that day.

Bright will shine the fields of England, Purer shall its waters be, Sweeter yet shall blow its breezes On the day that sets us free.

For that day we all must labour, Though we die before it break; Cows and horses, geese and turkeys, All must toil for freedom's sake.

Beasts of England, Beasts of Ireland, Beasts of every land and clime, Hearken well, and spread my tidings Of the Golden future time

After a successful revolution by the animals, Farmer Jones is expelled, and the Seven Principles of Animalism are established, the most important of which is

All animals are equal.

The pigs, being (as they say themselves) the most intelligent of the animals, gradually take over the running of the farm. Meetings of all the animals are replaced by meetings of the pigs. The faithful hardworking old horse, Boxer, is sold to the gluemaking knacker in order to buy whisky for the pigs. The first principle of Animalism is replaced by:

All animals are equal, but some animals are more equal than others.

Finally, the pigs start to carry whips and to walk on two legs. They become indistinguishable from humans.

Orwell's *Animal Farm*, published at the start of the Cold War, was a great commercial success, and it was translated into many languages.

Nineteen Eighty-Four (1949)

George Orwell's famous dystopian novel *Nineteen Eighty-Four* (often published as 1984) has changed the English language and added new words, for example "Orwellian", "doublethink", "thoughtcrime", "Big Brother", "newspeak", "nonperson" and "memory hole". Like *Animal Farm*, it expresses Orwell's deep dislike of Stalin's brutal dictatorship. However, the novel also so aptly describes recent conditions in the United States and elsewhere that today it has hit the top of best-seller lists.

The novel follows the life of Winston Smith, who lives in Airstrip One (formerly known as Great Britain). Airstrip One is part of the superstete Ociania, which is perpetually at war with two other superstates. Pictures of the ruler of Ociania, Big Brother, are everywhere and a cult of personality surrounds him, although he may not even exist.

Surveillance is also everywhere, performed by ubiquitous "telescreens", which both transmit and record. Under huge photographs of the leader of Ociania, there is usually the caption: "Big Brother is watching you". The Thought Police encourage children to report anyone who might be guilty of "thoughtcrimes", including their own parents.

The citizens of Ociania are divided into three classes. The highest and most privileged class is the Inner Party. Next come members of the Outer Party, and finally come the lowest class, the Proletariat, who make up the bulk of the population.

Winston Smith belongs to the Outer Party, and he works in the Ministry of Truth (Minitruth), where his job is to rewrite history so that it will conform to the constantlychanging doctrines of the Inner Party, He changes written records, alters photographs, and converts people who are out of favour to "nonpersons" by destroying every record of their existence. Winston is good at his job, but he gradually come to detest the whole system. This, of course is a "thoughtcrime".

Another worker in the Ministry of Truth is Julia, who runs Minitruth's novel-writing machines. She hands Winston a note telling him that she is in love with him. Winston finds out that Julia shares his detestation of the system, and an affair blossoms between them. They meet in a rented room in a proletarian district where they believe they will be free from survelience.

Later Winston is approached by O'Brian, a member of the Inner Party who is believed by Winston to be a member of the Brotherhood, a secret society that opposes the Party. Winston and Julia tell O'Brian of their detestation of the whole system. But O'Brian is not a member of the Brotherhood. He is actually a member of the Thought Police. Winston and Julia are arrested and tortured so severely that they finally betray each other.

Winston is tortured again and again. Simultaneously he is brainwashed to such an extent that he becomes a believer in the system, and can be sent back into society. The new, brainwashed Winston believes wholeheartedly in the doctrines of the Party, and he has finally learned to love Big Brother.

During the writing of *Nineteen Eighty-Four*, Orwell was very ill with tuberculosis, and he died soon afterwards from the disease.

Here are some quotations from *Nineteen Eighty-Four*.

Now I will tell you the answer to my question. It is this. The Party seeks power entirely for its own sake. We are not interested in the good of others; we are interested solely in power, pure power. What pure power means you will understand presently. We are different from the oligarchies of the past in that we know what we are doing. All the others, even those who resembled ourselves, were cowards and hypocrites. The German Nazis and the Russian Communists came very close to us in their methods, but they never had the courage to recognize their own motives. They pretended, perhaps they even believed, that they had seized power unwillingly and for a limited time, and that just around the corner there lay a paradise where human beings would be free and equal. We are not like that. We know that no one ever seizes power with the intention of relinquishing it. Power is not a means; it is an end. One does not establish a dictatorship in order to safeguard a revolution; one makes the revolution in order to establish the dictatorship. The object of persecution is persecution. The object of torture is torture. The object of power is power. Now you begin to understand me. (from 1984)

War is peace. Freedom is slavery. Ignorance is strength.

Politics and the English Language, and other essays

George Orwell was a perceptive and prolific essayist, and many of his essays that have been made available by Project Gutenberg³

A few things that George Orwell said

Actions are held to be good or bad, not on their own merits, but according to who does them. There is almost no kind of outrage -torture, imprisonment without trial, assassination, the bombing of civilians - which does not change its moral color when it is committed by 'our' side. The nationalist not only does not disapprove of atrocities committed by his own side,

³http://gutenberg.net.au/ebooks03/0300011h.html

he has a remarkable capacity for not even hearing about them.

The essence of oligarchical rule is not father-to-son inheritance, but the persistence of a certain world-view and a certain way of life ... A ruling group is a ruling group so long as it can nominate its successors... Who wields power is not important, provided that the hierarchical structure remains always the same

In a time of deceit telling the truth is a revolutionary act.

The creatures outside looked from pig to man, and from man to pig, and from pig to man again; but already it was impossible to say which was which.

The most effective way to destroy people is to deny and obliterate their own understanding of their history.

If you want a picture of the future, imagine a boot stamping on a human face - forever.

Political language is designed to make lies sound truthful and murder respectable, and to give an appearance of solidity to pure wind.

But if thought corrupts language, language can also corrupt thought.

If liberty means anything at all, it means the right to tell people what they do not want to hear.

Doublethink means the power of holding two contradictory beliefs in one's mind simultaneously, and accepting both of them.

Until they became conscious they will never rebel, and until after they have rebelled they cannot become conscious.

The essence of being human is that one does not seek perfection.

Being in a minority, even in a minority of one, did not make you mad. There was truth and there was untruth, and if you clung to the truth even against the whole world, you were not mad.

The great enemy of clear language is insincerity.

To see what is in front of one's nose requires a constant struggle.

Advertising is the rattling of a stick inside a swill bucket.

War is a way of shattering to pieces, or pouring into the stratosphere, or sinking in the depths of the sea, materials which might otherwise be used to make the masses too comfortable, and hence, in the long run, too intelligent.

George Orwell, brilliant and honest writer, lifelong opponent of tyrrany, we need your voice today!

Suggestions for further reading

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SELLING WEAPONS, SELLING WAR

Chapter 8

WEAPONS INDUSTRIES CONTROL THE US GOVERNMENT

8.1 A vast river of money

According to the Stockholm International Peace Research Institute (SIPRI), the world spent 2.113 trillion US dollars on armaments in 2021. Of this almost incomprehensible amount of money, the United States spent almost half the total, \$801 billion.

Perhaps one reason for the disproportionately large US arms spending is that in the United States, the arms industry has been privatized, which is not the case in China or Russia. In the US, selling weapons and death is a business. It is a business, on which capitalist investors can make enormous profits, selling weapons and selling death.

Although this book concentrates on the United States, profit-driven weapons manufacturing exists in many other countries, for example in the United Kingdom, France and Italy. We can remember the French Exocet missiles, sold to Argentina, which sank British ships during the Falklands War.

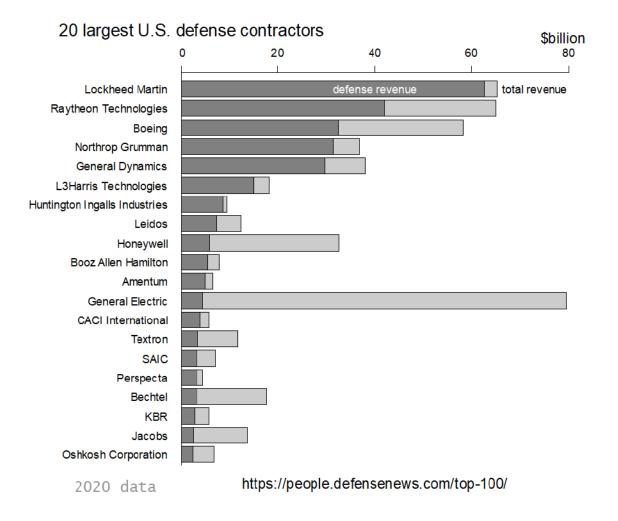


Figure 8.1: The 20 largest US defense contractors ranked by their defense revenue as of 2020.

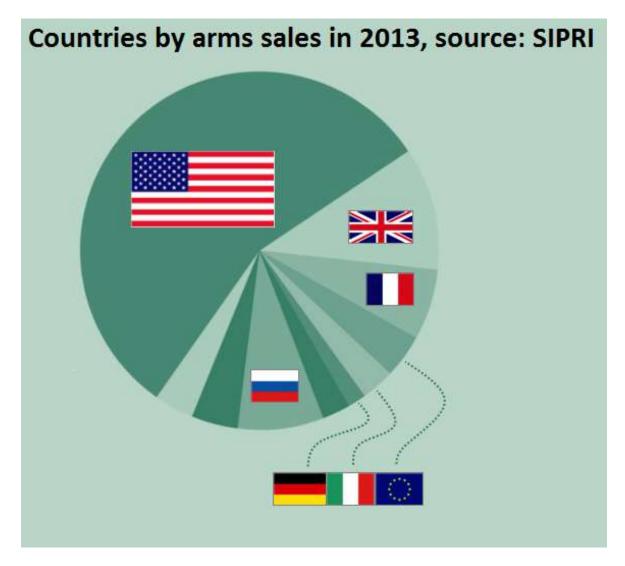


Figure 8.2: Share of arms sales by country. Source is provided by SIPRI.

8.2 Selling weapons and war abroad

The United States is by far the largest exporter of weapons in the world. The US sells weapons through NATO. It also sells weapons to dictatorships like Saudi Arabia, and these same weapons have produced a humanitarian catastrophes such as starvation in Yemen. Small arms exported to Africa deepen and prolong local conflicts.

The aggressive foreign policy of the United States is closely related to the profits made by arms manufacturers.

8.3 Militarism's hostages

Do our "Defense Departments" really defend us? Absolutely not! Their very title is a lie. The military-industrial complex sells itself by claiming to defend civilians. It justifies vast and crippling budgets by this claim; but it is a fraud. For the military-industrial complex, the only goal is money and power. Civilians like ourselves are just hostages. We are expendable. We are pawns in the power game, the money game.

Nations possessing nuclear weapons threaten each other with "Mutually Assured Destruction", which has the very appropriate acronym MAD. What does this mean? Does it mean that civilians are being protected? Not at all. Instead they are threatened with complete destruction. Civilians here play the role of hostages in the power games of their leaders.

A thermonuclear war today would be not only genocidal but also omnicidal. It would kill people of all ages, babies, children, young people, mothers, fathers and grandparents, without any regard whatever for guilt or innocence. Such a war would be the ultimate ecological catastrophe, destroying not only human civilization but also much of the biosphere.

There is much worry today about climate change, but an ecological catastrophe of equal or greater magnitude could be produced by a nuclear war. One can gain a small idea of what this would be like by thinking of the radioactive contamination that has made an area half the size of Italy near to Chernobyl permanently uninhabitable. It is too soon to know the full effects of the Fukushima disaster, but it appears that it will be comparable with Chernobyl.

The testing of hydrogen bombs in the Pacific half a century ago continues to cause cancer and birth defects in the Marshall Islands today. This too can give us a small idea of the environmental effects of a nuclear war.

In 1954, the United States tested a hydrogen bomb at Bikini. The bomb was 1,300 times more powerful than the bombs that destroyed Hiroshima and Nagasaki. Fallout from the bomb contaminated the island of Rongelap, one of the Marshall Islands 120 kilometers from Bikini. The islanders experienced radiation illness, and many died from cancer. Even today, half a century later, both people and animals on Rongelap and other nearby islands suffer from birth defects. The most common defects have been "jelly fish babies", born with no bones and with transparent skin. Their brains and beating hearts can be seen. The babies usually live a day or two before they stop breathing.

8.3. MILITARISM'S HOSTAGES

The environmental effects of a nuclear war would be catastrophic. A war fought with hydrogen bombs would produce radioactive contamination of the kind that we have already experienced in the areas around Chernobyl and Fukushima and in the Marshall Islands, but on an enormously increased scale. We have to remember that the total explosive power of the nuclear weapons in the world today is 500,0000 times as great as the power of the bombs that destroyed Hiroshima and Nagasaki. What is threatened by a nuclear war today is the complete breakdown of human civilization.

Besides spreading deadly radioactivity throughout the world, a nuclear war would inflict catastrophic damage on global agriculture. Firestorms in burning cities would produce many millions of tons of black, thick, radioactive smoke. The smoke would rise to the stratosphere where it would spread around the earth and remain for a decade. Prolonged cold, decreased sunlight and rainfall, and massive increases in harmful ultraviolet light would shorten or eliminate growing seasons, producing a nuclear famine. Even a small nuclear war could endanger the lives of the billion people who today are chronically undernourished. A full-scale war fought with hydrogen bombs would mean that most humans would die from hunger. Many animal and plant species would also be threatened with extinction.

Incidents in which global disaster is avoided by a hair's breadth are constantly occurring. For example, on the night of 26 September, 1983, Lt. Col. Stanislav Petrov, a young software engineer, was on duty at a surveillance center near Moscow. Suddenly the screen in front of him turned bright red. An alarm went off. It's enormous piercing sound filled the room. A second alarm followed, and then a third, fourth and fifth, until the noise was deafening. The computer showed that the Americans had launched a strike against Russia. Petrov's orders were to pass the information up the chain of command to Secretary General Yuri Andropov. Within minutes, a nuclear counterattack would be launched. However, because of certain inconsistent features of the alarm, Petrov disobeyed orders and reported it as a computer error, which indeed it was. Most of us probably owe our lives to his brave and coolheaded decision and his knowledge of software systems. The narrowness of this escape is compounded by the fact that Petrov was on duty only because of the illness of another officer with less knowledge of software, who would have accepted the alarm as real.

Narrow escapes such as this show us clearly that in the long run, the combination of space-age science and stone-age politics will destroy us. We urgently need new political structures and new ethics to match our advanced technology.

Recently the United States has made provocative moves that seriously risk starting a war with Russia that might develop into a nuclear war. These include a proposed transfer of heavy weapons to Baltic states on Russia's border, as well as sending a fleet of warships to the Black sea.

At the same time, the United States is making aggressive moves in an attempt to "contain China".

Thus Washington's power-holders are threatening war with both Russia and China. The effect of these colossally misguided US action has been to firmly unite China and Russia. In fact the BRICS countries, with their vast resources, are now moving away from using the dollar as a reserve currency for international trade. The probable effect will be the collapse of the already-strained US economy, and as a consequence, the fall of the US Empire.

What can be the reason for these actions, which seem to border on insanity? One reason can be found in the power-drunk thinking of the "Project for a New American Century", one of whose members was US Under Secretary of Defense for Policy, Paul Wolfowitz.

The Wolfowitz Doctrine states that "Our first objective is to prevent the re-emergence of a new rival, either on the territory of the former Soviet Union or elsewhere, that poses a threat on the order of that posed formerly by the Soviet Union. This is a dominant consideration underlying the new regional defense strategy and requires that we endeavor to prevent any hostile power from dominating a region whose resources would, under consolidated control, be sufficient to generate global power."

In other words, the Wolfowitz Doctrine is a declaration that the United States intends to control the entire world through military power. No thought is given to the protection of civilian populations, either in the United States or elsewhere. Civilians are mere hostages in a power game.

The money game is important too. A great driving force behind militarism is the almost unimaginably enormous river of money that buys the votes of politicians and the propaganda of the mainstream media. Numbed by the propaganda, citizens allow the politicians to vote for obscenely bloated military budgets, which further enrich the corporate oligarchs, and the circular flow continues.

As long as tensions are maintained; as long as there is a threat of war, the militaryindustrial complex gets the money for which it lusts, and the politicians and journalists get their blood money. The safety of civilians plays no role in the money game. We are just hostages.

There is a danger that our world, with all the beauty and value that it contains, will be destroyed by this cynical game for power and money, in which civilians are militarism's hostages. Will we let this happen?

8.4 Searching for enemies

Because the world spends roughly two trillion dollars each year on armaments, it follows that very many people make their living from war. This is the reason why it is correct to speak of war as a social, political and economic institution, and also one of the main reasons why war persists, although everyone realizes that it is the cause of much of the suffering of humanity.

We know that war is madness, but it persists. We know that it threatens the survival of our species, but it persists, entrenched in the attitudes of historians, newspaper editors and television producers, entrenched in the methods by which politicians finance their campaigns, and entrenched in the financial power of arms manufacturers - entrenched also in the ponderous and costly hardware of war, the fleets of warships, bombers, tanks, nuclear missiles and so on.

In his farewell address, US President Dwight D. Eisenhower warned his nation against

the excessive power that had been acquired during World War II by the military-industrial complex.

Eisenhower's words echoed those of another US President, George Washington, who warned against "overgrown Military Establishments which, under any form of government, are inauspicious to liberty, and which are regarded as particularly hostile to Republican Liberty."

The military-industrial complex needs enemies. Without them it would wither. Thus at the end of the Second World War, this vast power complex was faced with a crisis, but it was saved by the discovery of a new enemy, communism. However, at the end of the Cold War there was another terrible crisis for the military establishment, the arms manufacturers and their supporters in research, government and the mass media. People spoke of the "peace dividend", i.e., constructive use of the trillion dollars that the world wastes each year on armaments. However, just in time, the military-industrial complex was saved from the nightmare of the "peace dividend" by the September 11 attacks on New York and Washington.

No matter that the attacks were crimes committed by individuals rather than acts of war, crimes against which police action rather than military action would have been appropriate. The Bush Administration (and CNN, Fox, etc.) quickly proclaimed that a state of war existed, and that the rules of war were in effect. The Cold War was replaced with the "War on Terrorism".

To a large extent, this over-reaction to the events of 9/11/2001 can be interpreted in terms of the needs of the military-industrial complex against which Eisenhower had warned. Without a state of war and without enemies, this vast conglomerate of organizations and pressure groups would have languished.

If the aim of the "War on Terror" had been to rid the world of the threat of terrorism, acts like illegal assassination using drones would have been counterproductive, since they create many more terrorists than they destroy. But since the real aim is to produce a state of perpetual war, thus increasing the profits of the military-industrial complex, such methods are the best imaginable. Urinating on Afghan corpses or burning the Koran or murderous night-time raids on civilian homes also help to promote the real goal, perpetual war.

For those who belong to the military-industrial complex, perpetual war is a blessing, but for the majority of the people of the world it is a curse. Since we who oppose war are the vast majority, can we not make our wills felt?

8.5 Attacks on democracy in the United States

In recent years, and especially since Donald Trump's term as president, the Republican party has become irresponsible. Republican Senators and members of the House of Representatives no longer act to promote whatever is best for their country and the planet. Instead, they block whatever the Democratic Party tries to achieve.

The Republican Party is aided by Senators Joe Manchin and Kyrsten Sinema who,



Figure 8.3: January 6 insurrectionists.

although they are nominally Democrats, act as destructively as though they were Republicans. Manchin is paid to do this by giant coal corporations, while Sinema gets her blood money from big pharmaceutical firms.

The worst crime of the Republican Party is obstruction of action to prevent catastrophic climate change. Donald Trump referred to climate change as "a hoax" and pulled the United States out of the Paris Agreement. Trump's party continues to echo his denialism and his obstruction of climate action.

Less serious, but still a life-or-death matter is a denial of the seriousness of Covid-19 and the need to combat the pandemic through vaccination. Trump caused several hundred thousand unnecessary deaths by denying the seriousness of Covid-19, and his party continues to echo this doctrine.

White supremacists fear racial equality

The white population of the United States currently constitutes 61.6 percent of all racial groups. This figure is down from 72.4 percent in 2010. White supremacists fear that if these demographic trends continue, then in a decade or so, white people will become a minority. The Republican Party derives much of its support from this fear. Furthermore, people in the non-white population tend to be poor. If they become a majority, will they not use their voting power to advocate higher taxes for the rich and more social services for the poor? The solution must be to somehow prevent them from voting. For this reason, Republicans have blocked legislation such as HR1 and the John Lewis Voting Rights Act,



Figure 8.4: Signs reading "Stop the Steal" and "Off with their heads", taken on the day of the attack.



Figure 8.5: A crowd-erected gallows hangs near the United States Capitol during the 2021 storming of the United States Capitol.

which promote equal voting rights for all.

The far-right today

The Associated Press gives the following definition of the alt-right movement:

"The 'alt-right' or 'alternative right' is a name currently embraced by some white supremacists and white nationalists to refer to themselves and their ideology, which emphasizes preserving and protecting the white race in the United States in addition to, or over, other traditional conservative positions such as limited government, low taxes, and strict law-and-order. The movement has been described as a mix of racism, white nationalism, and populism ... criticizes 'multiculturalism' and more rights for non-whites, women, Jews, Muslims, gays, immigrants, and other minorities. Its members reject the American democratic ideal that all should have equality under the law regardless of creed, gender, ethnic origin, or race."

Another far-right organization, the Proud Boys, displays Nazi swastika flags at their meetings.

High-level complicity in the January 6 insurrection

The plans for the January 6 insurrection were very well known in advance to DC security officials because they were openly discussed online. Nevertheless, a no-risk evaluation was issued, and no preparations were made to defend the Capitol building. Orders from the Pentagon disarmed the Washington DC National Guard. The Pentagon also refused for several hours to act on a request by Maryland Governor Larry Hogan to employ his state's National Guard against the insurrectionists.

In an article entitled *Details Emerge of High-Level State Involvement In January 6* Events, published on January 11, 2021, Eric London wrote: ¹

"In the aftermath of the January 6 fascist coup attempt in Washington DC, new revelations show that the plot was prepared with the involvement of sections of the military, police and Republican Party. The danger has not passed. Trump remains president for 11 days and is using the White House as the nerve center for his efforts to remain in office. There is every indication that plans for a second putsch attempt on Inauguration Day-January 20 - are now underway.

"The minimal police presence at the Capitol building on Wednesday was not a mistake or oversight, as the corporate media has claimed, but part of a high-level conspiracy.

 $^{^{1}} https://popular resistance.org/details-emerge-of-high-level-state-involvement-in-january-6-events/$

"Before the rally, intelligence agencies refused to investigate the plans for the insurrection that participants and organizers were openly promoting online. The Wall Street Journal revealed yesterday that 'the Federal Bureau of Investigation and an intelligence unit inside the Department of Homeland Security didn't issue a threat assessment of the Jan. 6 pro-Trump protests,' even though such assessments are routinely made before nonviolent left-wing demonstrations and are used to prepare police crackdowns and identify participants.

"The Washington Post also reported Friday that the Pentagon had issued orders disarming the Washington DC National Guard before Wednesday's rally, delaying any armed response for several hours pending deployments from out of state:

"The Washington Post also reported Friday that the Pentagon had issued orders disarming the Washington DC National Guard before Wednesday's rally, delaying any armed response for several hours pending deployments from out of state:

"Even then, the Pentagon refused to act for several hours on a request by Maryland Republican Governor Larry Hogan to deploy his state's National Guard against the insurrectionists. On Wednesday night, Secretary of the Army Ryan McCarthy downplayed this delay, claiming there was 'a little bit of confusion' after congressional leaders called Hogan from a bunker, begging him to deploy the guard and save their lives..."

Donald Trump is still a threat

Donald Trump continues to maintain a stronghold over the Republican Party, and many people fear that he might make a successful run for president in 2024.

To prevent this, it has been suggested that the 14th Amendment should be invoked. The relevant section of this important amendment states that:

"No person shall be a Senator or Representative in Congress, or elector of President and Vice President, or hold any office, civil or military, under the United States, or under any State, who, having previously taken an oath, as a member of Congress, or as an officer of the United States, or as a member of any State legislature, or as an executive or judicial officer of any State, to support the Constitution of the United States, shall have engaged in insurrection or rebellion against the same, or given aid or comfort to the enemies thereof. But Congress may, by a vote of two-thirds of each House, remove such disability."

Trump might also be disqualified if he is successfully prosecuted for any of his numerous crimes.

The danger of a civil war

The number of guns in the United States is remarkably high: 1.3 guns per person! Furthermore, several hundred private militia groups exist, and their number is increasing. They attract radicalized individuals, and they talk openly about armed rebellion. These militias are primarily made up of right-wing young men. These factors contribute to the danger of a new civil war.

8.6 Secrecy and democracy are incompatible

It is obvious, almost by definition, that excessive governmental secrecy and true democracy are incompatible. If the people of a country have no idea what their government is doing, they cannot possibly have the influence on decisions that the word "democracy" implies.

Dark government

Governmental secrecy is not something new. Secret diplomacy contributed to the outbreak of World War I, and the secret Sykes-Picot agreement later contributed to bitterness of conflicts in the Middle East. However, in recent years, governmental secrecy has grown enormously.

The revelations of Edward Snowden have shown that the number of people involved in secret operations of the United States government is now as large as the entire population of Norway: roughly 5 million. The influence of this dark side of government has become so great that no president is able to resist it.

In a recent article, John Chuckman remarked that "The CIA is now so firmly entrenched and so immensely well financed (much of it off the books, including everything from secret budget items to the peddling of drugs and weapons) that it is all but impossible for a president to oppose it the way Kennedy did. Obama, who has proved himself to be a fairly weak character from the start, certainly has given the CIA anything it wants. The dirty business of ISIS in Syria and Iraq is one project. The coup in Ukraine is another. The pushing of NATO's face right against Russia's borders is another. Several attempted coups in Venezuela are still more. And the creation of a drone air force for extra-judicial killings in half a dozen countries is yet another. They don't resemble projects we would expect from a smiley-faced intelligent man who sometimes wore sandals and refused to wear a flag pin on his lapel during his first election campaign."

Of course the United States government is by no means alone in practicing excessive secrecy: Scott Horton recently wrote an article entitled "How to Rein in a Secretive Shadow Government Is Our National Security Crisis". He dedicated the article to the Soviet dissident Andrei Sakharov because, as he said, "Sakharov recognized that the Soviet Union rested on a colossal false premise: it was not so much socialism (though Sakharov was certainly a critic of socialism) as it was the obsession with secrecy, which obstructed the search for truth, avoided the exposure of mistakes, and led to the rise of powerful bureaucratic elites who were at once incompetent and prone to violence."

Censorship of the news

Many modern governments have become very expert in manipulating public opinion through mass media. They only allow the public to hear a version of the "news" that has been handed down by powerholders. Of course, people can turn to the alternative media that are available on the Internet. But on the whole, the vision of the world presented on television screens and in major newspapers is the "truth" that is accepted by the majority of the public, and it is this picture of events that influences political decisions. Censorship of the news by the power elite is a form of secrecy, since it withholds information that is needed for a democracy to function properly.

Coups, torture and illegal killing

During the period from 1945 to the present, the US interfered, militarily or covertly, in the internal affairs of a large number of nations: China, 1945-49; Italy, 1947-48; Greece, 1947-49; Philippines, 1946-53; South Korea, 1945-53; Albania, 1949-53; Germany, 1950s; Iran, 1953; Guatemala, 1953-1990s; Middle East, 1956-58; Indonesia, 1957-58; British Guiana/Guyana, 1953-64; Vietnam, 1950-73; Cambodia, 1955-73; The Congo/Zaire, 1960-65; Brazil, 1961-64; Dominican Republic, 1963-66; Cuba, 1959-present; Indonesia, 1965; Chile, 1964-73; Greece, 1964-74; East Timor, 1975-present; Nicaragua, 1978-89; Grenada, 1979-84; Libya, 1981-89; Panama, 1989; Iraq, 1990-present; Afghanistan 1979-92; El Salvador, 1980-92; Haiti, 1987-94; Yugoslavia, 1999; and Afghanistan, 2001-present, Syria, 2013-present; Egypt, 2013-present, and Ukraine, 2013-present. Most of these interventions were explained to the American people as being necessary to combat communism (or more recently, terrorism), but an underlying motive was undoubtedly the desire to put in place governments and laws that would be favorable to the economic interests of the US and its allies.

For the sake of balance, we should remember that during the Cold War period, the Soviet Union and China also intervened in the internal affairs of many countries, for example in Korea in 1950-53, Hungary in 1956, Czechoslovakia in 1968, and so on; another very long list. These Cold War interventions were also unjustifiable, like those mentioned above. Nothing can justify military or covert interference by superpowers in the internal affairs of smaller countries, since people have a right to live under governments of their own choosing even if those governments are not optimal.

Many people in Latin America have been tortured.² However, torture has also occurred elsewhere. The long history of CIA torture was recently investigated, but only small portions of the 6000-page report are available to the public. The rest remains secret.

Extrajudicial killing of civilians by means of drones is also shrouded by secrecy, and it too is a gross violation of democratic principles.

 $^{^{2}} https://www.transcend.org/tms/2015/03/the-cia-in-latin-america-from-coups-to-torture-and-preemptive-killings/$

Secret trade deals

The Trans-Pacific Partnership is one of the trade deals that was negotiated in secret. Not even the US congress was allowed to know the details of the document. However, enough information has been leaked to make it clear that if the agreement is passed, foreign corporations would be allowed to "sue" the US government for loss of profits because of (for example) environmental regulations. The "trial" would be outside the legal system, before a tribunal of lawyers representing the corporations.

A similar secret trade deal with Europe, the Trans-Atlantic Trade and Investment Partnership (TTIP), was also being "fast-tracked". One can hardly imagine greater violations of democratic principles.

Secret land purchases in Africa

According to a report released by the Oakland Institute, in 2009 alone, hedge funds bought or leased nearly 60 million hectares of land in Africa, an area the size of France.

As populations increase, and as water becomes scarce, China, and other countries, such as Saudi Arabia are also buying enormous tracts of agricultural land, not only in Africa, but also in other countries.

These land purchases are very often kept secret from the local populations by corrupt governments.

Prosecution of whistleblowers

The frantic efforts of President Obama to capture and punish whistleblower Edward Snowden indicate that the secrets that the US government is trying to hide are by no means limited to the massive electronic spying operations that Snowden revealed.

Snowden has already said most of what he has to say. Nevertheless, Washington was willing to break international law and the rules of diplomatic immunity by forcing its European allies to ground the plane of Bolivian President Evo Morales following a rumor that Snowden was on board. This was not done to prevent Snowden from saying more, but with the intention of making a gruesome example of him, as a warning to other whistleblowers.

Furthermore, President Obama initiated an enormous Stasi-like program called "Insider Threats", which forces millions of federal employees, in a wide variety of agencies, to spy on each other and to report anything that looks like a move towards whistleblowing.

According to an article written by Marisa Taylor and Jonathan S. Landay of the McLatchy Washington Bureau, "...It extends beyond the US national security bureaucracies to most federal departments and agencies nationwide, including the Peace Corps, the Social Security Administration, and the Education and Agriculture Departments."

Apparently the US government has very many secrets to hide, and very many potential whistleblowers that it fears. But who are they? Who are the potential whistleblowers who must be forced into terrified silence by the examples made of Edward Snowden, Bradley Manning and Julian Assange?

Are these potential whistleblowers CIA agents who have stories to tell about dirty wars and assassinations in Latin America? Are they people who know the details about how John and Robert Kennedy were shot? Are they people who know how Martin Luther King Jr. was killed? Are they the New York firemen who heard a series of explosions as the buildings of the World Trade Center collapsed? Are they the people in New York who collected samples of the dust that was collected from the falling buildings; dust that was shown by chemical analysis to contain nanothermite, a powerful heat-producing compound that could have melted the steel structures of the buildings? Are they the CIA insiders who could give evidence that the US government knew well in advance of the planned 9/11 attacks, and made them worse than they otherwise would have been by planting explosives in the World Trade Center buildings? Are they people who know Obama's own secrets?

Whoever these potential whistleblowers are, it is clear that Obama fears them, and that the US government has many secrets. But if it has many secrets, then the present government of the United States cannot be a democracy. In a democracy, the people must know what their government is doing.

Can a government, many of whose operations are secret, be a democracy? Obviously this is impossible. The recent attempts of the United States to arrest whistleblower Edward Snowden call attention to the glaring contradiction between secrecy and democracy.

In a democracy, the power of judging and controlling governmental policy is supposed to be in the hands of the people. It is completely clear that if the people do not know what their government is doing, then they cannot judge or control governmental policy, and democracy has been abolished. There has always been a glaring contradiction between democracy and secret branches of the government, such as the CIA, which conducts its assassinations and its dirty wars in South America without any public knowledge or control.

The gross, wholesale electronic spying on citizens revealed by Snowden seems to be specifically aimed at eliminating democracy. It is aimed at instilling universal fear and conformity, fear of blackmail and fear of being out of step, so that the public will not dare to oppose whatever the government does, no matter how criminal or unconstitutional.

The Magna Carta is trashed. No one dares to speak up. Habeas Corpus is trashed. No one dares to speak up. The United Nations Charter is trashed. No one dares to speak up. The Universal Declaration of Human Rights is trashed. No one dares to speak up. The Fourth Amendment to the US Constitution is trashed. No one dares to speak up. The President claims the right to kill both US and foreign citizens, at his own whim. No one dares to speak up.

George Orwell, you should be living today! We need your voice today! After Snowden's revelations, the sale of Orwell's "1984" soared. It is now on the bestseller list. Sadly, Orwell's dystopian prophesy has proved to be accurate in every detail.

What is the excuse for for the massive spying reported by Snowden, spying not only on US citizens but also on the citizens of other countries throughout the world? "We want to protect you from terrorism.", the government answers. But terrorism is not a real threat, it is an invented one. It was invented by the military-industrial complex because, at the end of the Cold War, this enormous money-making conglomerate lacked enemies.

Globally, the number of people killed by terrorism is vanishingly small compared to

the number of children who die from starvation every year. It is even vanishingly small compared with the number of people who are killed in automobile accidents. It is certainly small compared with the number of people killed in wars aimed at gaining western hegemony over oil-rich regions of the world.

In order to make the American people really fear terrorism, and in order to make them willing to give up their civil liberties, a big event was needed, something like the 9/11 attacks on the World Trade Center.

There is strong evidence, available on the Internet for anyone who wishes to look at it, that the US government knew well in advance that the 9/11 attacks would take place, and that government agents made the disaster worse than it otherwise would have been by planting explosives in the buildings of the World Trade Center. For example, CIA insider Susan Lindauer has testified that the US government knew about the planned attacks as early as April, 2001. Other experts have testified that explosives must have been used to bring the buildings down

Numerous samples of the dust from the disaster were collected by people in New York City, and chemical analysis of the dust has shown the presence of nanothermite, a compound that produces intense heat. Pools of recently-melted steel were found in the ruins of the buildings before these were sealed off from the public. An ordinary fire does not produce temperatures high enough to melt steel.

Thus it seems probable that the US government participated in the 9/11 attacks, and used them in much the same way that the Nazis used the Reichstag fire, to abridge civil liberties and to justify a foreign invasion. Soon afterward, the Patriot Act was passed. It's Orwellian name is easily understood by anyone who has read "1984".

Secrecy, democracy and nuclear weapons

Nuclear weapons were developed in secret. The decision to use them on the civilian populations of Hiroshima and Nagasaki in an already-defeated Japan was made in secret. Since 1945, secrecy has surrounded all aspects of nuclear weapons, and for this reason it is clear that they are essentially undemocratic.

Nuclear disarmament has been one of the core aspirations of the international community since the first use of nuclear weapons in 1945. A nuclear war, even a limited one, would have global humanitarian and environmental consequences, and thus it is a responsibility of all governments, including those of non-nuclear countries, to protect their citizens and engage in processes leading to a world without nuclear weapons.

As Sir Joseph Rotblat (1908-2005, Nobel Laureate 1995) frequently emphasized in his speeches, societal verification must be an integral part of the process of "going to zero" (i.e, the total elimination of nuclear weapons). This is because nuclear weapons are small enough to be easily hidden. How will we know whether a nation has destroyed all of its nuclear arsenal? We have to depend on information from insiders, whose loyalty to the whole of humanity prompts them to become whistleblowers. And for this to be possible, they need to be protected.

In general, if the world is ever to be free from the threat of complete destruction by modern weapons, we will need a new global ethic, an ethic as advanced as our technology. Of course we can continue to be loyal to our families, our localities and our countries. But this must be supplemented by a higher loyalty: a loyalty to humanity as a whole.

Freedom from fear

In order to justify secrecy, enormous dark branches of government and mass illegal spying, governments say: "We are protecting you from terrorism". But terrorism is not a real threat, since our chances of dying from a terrorist attack are vanishingly small compared to (for example) automobile accidents. If we are ever to reclaim our democracy, we must free ourselves from fear.

8.7 Birgitta Jónsdóttir, democracy, and freedom of information

The Icelandic parliamentarian, Birgitta Jónsdóttir, has taken an important step towards solving one of the central problems that the world is facing today. The problem is this: How can we regain democratic government when the mainstream media are completely controlled the corporate oligarchy?

If anyone doubts that democratic government has been lost and needs to be regained, let them think of the recent US election, in which a large percentage of the voters stayed home because they were disillusioned with the political process. They knew that whomever they elected, their voices would not be heard.

The voters did not like to be told that they had power, which in fact they did not have. Both major political parties follow the dictates of the corporate oligarchs, rather than the will of the people. No doubt the Democrats in the US Congress are slightly better than the Republicans, but both parties have essentially been bought by big money from lobbies representing the military-industrial complex and the fossil fuel companies.

Contrary to the wishes of the people, social services continue to be cut in favor of obscenely bloated military budgets, perpetual foreign wars, and environment-destroying subsidization of the fossil fuel industry. Despite the will of the people, the US government exposes our beautiful earth to the deadly risks of all-destroying thermonuclear war and out-of-control global warming.

The United States is by no means the only country with an oligarchic non-democratic government. Globally, countries with truly democratic and sane governments are the exception rather than the rule. Therefore the problem is a global one, and let us repeat it: How can we regain democratic government when the mainstream media are completely controlled the corporate oligarchy?

Let us return to Birgitta Jónsdóttir. Who is she? Birgitta is a popular and successful young Icelandic poet, writer, artist, publisher and anti-war activist, who had no inkling until quite recently that she was destined to become a politician. Then in 2008, Iceland



Figure 8.6: The Icelandic poet, author, publisher, artist and anti-war activist Birgitta Jónsdóttir became an influential parliamentarian in 2009.

underwent a financial crisis. It became clear that the crisis was due to corrupt links of politicians with Iceland's financial sector. In 2009, Birgitta ran for the Icelandic Parliament (Althingi, the oldest parliament in the world) as part of the reform movement.

Believing that lack of free information was the main cause of the corruption behind Iceland's 2008 crisis, Birgitta Jónsdóttir persuaded her colleagues in the Althingi to pass unanimously a law calling for complete freedom of information in Iceland. She also worked closely with Julian Assange to produce the video "Collateral Murder".

Under Birgitta Jónsdóttir's leadership, Icelandic parliamentarians plan to pass laws which will make make Iceland a safe haven for journalistic freedom. In so doing, they will help to re-establish democratic government throughout the world, a vital step if nuclear and climatic disasters are to be averted.

8.8 Julian Assange, martyred for telling the truth

The jaws of power are always open to devour, and her arm is always stretched out, if possible, to destroy the freedom of thinking, speaking, and writing. (John Adams, 1735-1826)

According to the Nuremberg Principles, the citizens of a country have a responsibility for the crimes that their governments commit. But to prevent these crimes, the people need to have some knowledge of what is going on. Indeed, democracy cannot function at all without this knowledge.

What are we to think when governments make every effort to keep their actions secret

from their own citizens? We can only conclude that although they may call themselves democracies, such governments are in fact oligarchies or dictatorships.

At the end of World War I, it was realized that secret treaties had been responsible for its outbreak, and an effort was made to ensure that diplomacy would be more open in the future. Needless to say, these efforts did not succeed, and diplomacy has remained a realm of secrecy.

Many governments have agencies for performing undercover operations (usually very dirty ones). We can think, for example of the KGB, the CIA, M5, or Mossad. How can countries that have such agencies claim to be democracies, when the voters have no knowledge of or influence over the acts that are committed by the secret agencies of their governments?

Nuclear weapons were developed in secret. It is doubtful whether the people of the United States would have approved of the development of such antihuman weapons, or their use against an already-defeated Japan, if they had known that these things were going to happen. The true motive for the nuclear bombings was also kept secret. In the words of General Groves, speaking confidentially to colleagues at Los Alamos, the real motive was "to control the Soviet Union".

The true circumstances surrounding the start of the Vietnam war would never have been known if Daniel Ellsberg had not leaked the Pentagon Papers. Ellsberg thought that once the American public realized that their country's entry into the war was based on a lie, the war would end. It did not end immediately, but undoubtedly Ellsberg's action contributed to the end of the war.

We do not know what will happen to Julian Assange. If his captors send him to the US, and if he dies there for the crime of publishing leaked documents (a crime that he shares with the New York Times), he will not be the first martyr to the truth.

The ageing Galileo was threatened with torture and forced to recant his heresy, that the Earth moves around the Sun. Galileo spent the remainder of his days in house arrest.

Giordano Bruno was less lucky. He was burned at the stake for maintaining that the universe is larger than it was then believed to be.

If Julian Assange becomes a martyr to the truth like Galileo or Bruno, his name will be honored in the future, and the shame of his captors will be remembered too.

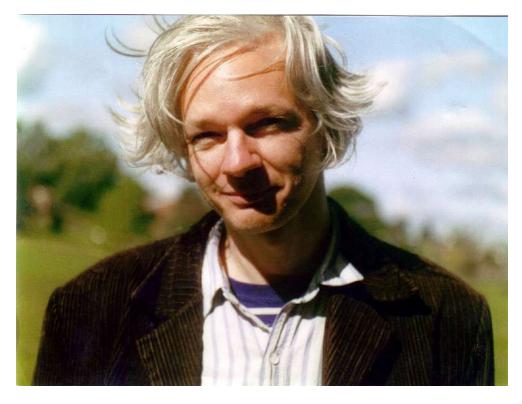


Figure 8.7: Assange, c. 2006.

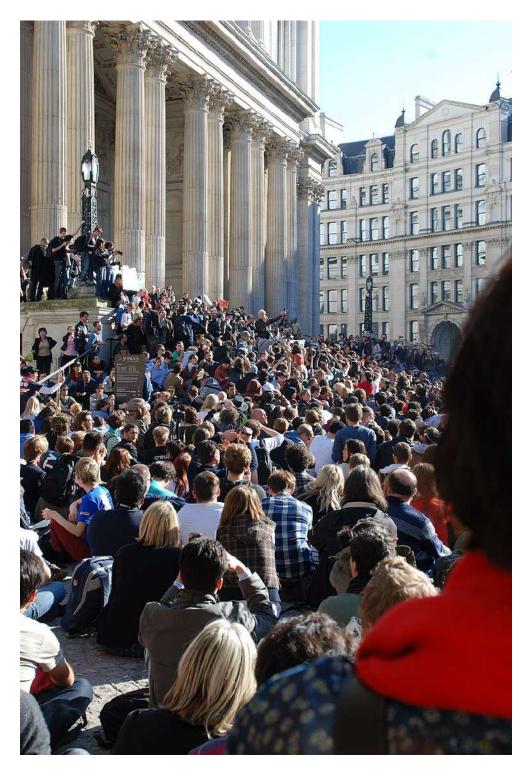


Figure 8.8: Assange speaks on the steps of St Paul's Cathedral in London, 16 October 2011.

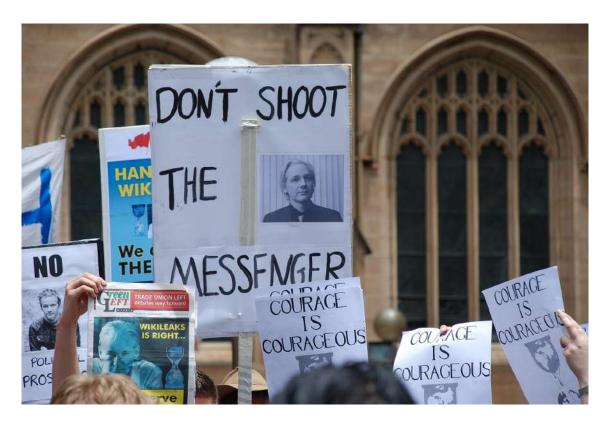


Figure 8.9: Demonstration in support of Assange in front of Sydney Town Hall, 10 December 2010.

8.9 The right-wing Supreme Court's unconstitutional rampage

Here is a quotation from an article by William Rivers Pitt, published in Truthout on July 4, 2022:

"The Supreme Court, in a blur of weeks, has changed the fundamental rights available to millions of people in this country - and even the prospects of humanity's survival. The overturning of Roe v. Wade trashed 50 years of settled reproductive rights. In Kennedy v. Bremerton School District and Carson v. Makin, the separation of church and state was deeply wounded. New York State Rifle & Pistol Association v. Bruen opened the door to rain concealed guns down on a society already battered by extreme gun violence. In United States v. Zubaydah, the government was allowed to hide a CIA black site where a prisoner was tortured. In West Virginia v. Environmental Protection Agency, the court eviscerated the EPA's ability to regulate polluters. x "Freedom. Privacy. God in schools. Guns everywhere. The stain of torture again obscured. Polluters let off the leash in the face of escalating global climate crisis. It is difficult to fully encompass what has taken place here, how quickly it has come, and what is to be done now. Look out the window and everything seems the same... yet in truth, everything is different, and the frontal assault by right-wing forces upon all the progressive gains made last century is only just beginning."

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SELLING WEAPONS, SELLING WAR

Chapter 9

MASS SHOOTINGS AND MASSACRES

9.1 More guns than people in the United States

Gun ownership in the United States

US civilians form only 4 percent of the global population, but they possess 46 percent of the global total of firearms, 1.205 per person.

Historical reasons for America's gun culture

During, and for some time after, the American Revolutionary War, the United States had no standing army, but relied on a militia composed of citizens who supplied their own arms. The Second Amendment to the US Constitution refers to this situation in its wording: "A well regulated Militia, being necessary to the security of a free State, the right of the people to keep and bear Arms, shall not be infringed."

The need for guns on the early American frontier

Historically frontiersmen relied on guns to supplement their diets by hunting, and to defend themselves from wild animals and hostile native Americans.

Hollywood glorification of guns

More recently, Hollywood has produced many films that support America's gun culture. These include war films, gangster films, and cowboy films. However the US gun culture has become a menace to society, a dangerous anachronism.

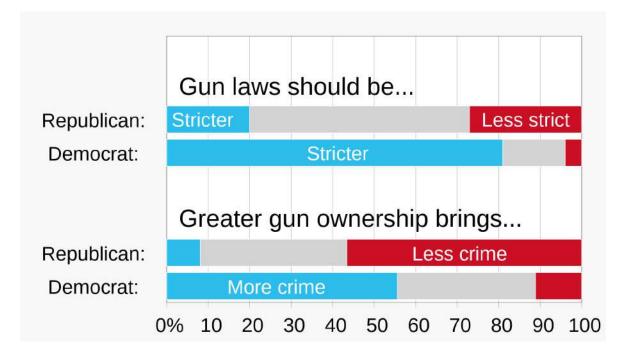


Figure 9.1: U.S. opinion on gun control issues is deeply divided along political lines, as shown in this 2021 survey.

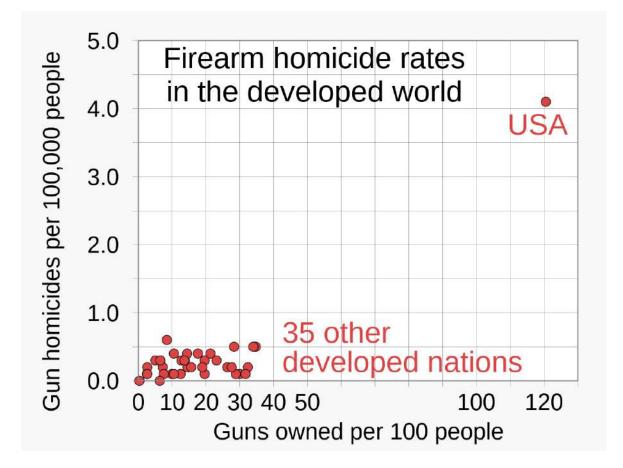


Figure 9.2: U.S. gun homicide rate (18 times the average rate in other developed countries) plotted versus ownership rate (more than one per person).



Figure 9.3: Visitors at a gun show (Houston Gun show at the George R. Brown Convention Center).

9.2 A few of the most notorious mass shootings

University of Texas Tower shooting, 1966

After stabbing his mother and his wife to death during the previous night, Charles Whitman, a Marine veteran, purchased many deadly weapons and large amounts of ammunition, saying that they were to be used in "hunting". He then took this enormous load of weaponry in a hand-cart to the top of a tower on the University of Texas campus.

According to Wikipedia, he had with him, "...a Remington 700 6-mm bolt-action hunting rifle, a .35-caliber pump rifle, the M1 carbine, a 9-mm Luger pistol, a Galesi-Brescia .25-caliber pistol, a Smith & Wesson M19 .357 Magnum revolver, the shotgun, of which he had sawn off the barrel and buttstock, as well as more than 700 rounds of ammunition. He also packed food, coffee, vitamins, Dexedrine, Excedrin, earplugs, jugs of water, matches, lighter fluid, rope, binoculars, a machete, three knives, a transistor radio, toilet paper, a razor, and a bottle of deodorant."

From the observation deck of the tower, he began shooting randomly at anyone he could see. He killed 14 people, including an unborn child, and injured 38 others. Finally two policemen and a civilian reached him and shot him dead. A autopsy showed a brain tumor pressing on his amygdala, which may have been the source of the violent impulses from which he has been suffering for years.



Figure 9.4: Whitman's rifles and sawed-off shotgun.



Figure 9.5: Whitman dead on the observation deck.

Columbine High School massacre, 1999

The Columbine High School massacre took place in Columbine, Colorado in 1999. The perpetrators, 12th grade students Eric Harris and Dylan Klebold. They had intended the attack, which they had planned for a year, to be primarily a bombing of the school, but their home-made bombs failed to detonate. Changing their plans, they then began shooting students. They killed 10 students and one teacher, and 21 additional people were injured by gunfire. Additional people were injured trying to escape. The two perpetrators committed suicide.



Figure 9.6: 9 mm Hi-Point 995 carbine, one of the guns used by Harris.



Figure 9.7: 9 mm TEC-9 pistol, one of the guns used by Klebold.

Virginia Tech shooting, 2007

This shooting was one of the deadliest in US history. The perpetrator was a young South Korean man named Seung-Hui Cho, who was a resident of the United States. During his high-school years he had been diagnosed with selective mutism and severe depression, and he had been receiving treatment and special support. However, when he entered Virginia Tech, federal privacy laws did not allow the University to be informed of his history of mental illness. Nor did this history of mental illness prevent Cho from buying two semi-automatic pistols and a large amount of ammunition.

In two separate attacks, Cho killed 33 people, including himself, and injured 23 others.



Figure 9.8: The Virginia Tech community mourns the victims at a candlelight vigil.

Sandy Hook Elementary School shooting, 2012

This massacre of small children was the worst attack on an elementary school in US history. The perpetrator, Adam Lanza, had a history of mental disorder. As a teenager, he was diagnosed with Asberger's Syndrome and Obsessive Compulsive Disorder, as well as severe depression. These mental problems seem to have become worse with time.

On the morning of December 14, Lanza shot and killed his mother. He then went on a shooting spree at Sandy Hook Elementary School in the Connecticut town where he lived. It is unclear why he chose the school for his deadly attack. In all, he shot and killed 26 people at the school. 20 were children, between six and seven years old, and six were adult members of staff. In the end, Lanza shot and killed himself.



Figure 9.9: Victims of the Sandy Hook elementary school shooting.



Figure 9.10: The 27 victims of the massacre are survived by friends and family who have had to live with the consequences of the event.

El Passo Walmart shooting, 2019

On the morning of August 3, 2019, 21-year-old Patrick Wood Crusius, a Republican follower of Donald Trump, walked into a Walmart in El Paso Texas. carrying an AK-47 automatic weapon. He opened fire on the largely Latino customers, killing 22 people and seriously injuring 24 others. In a manifesto, which he published on the Internet just before the murders, he wrote "In general, I support the Christchurch shooter and his manifesto. This attack is a response to the Hispanic invasion of Texas. They are the instigators, not me. I am simply defending my country from cultural and ethnic replacement brought on by an invasion." The language and ideas used by Crusius are similar to those of Donald Trump, who often speaks of a Mexican invasion.

The following day, there was another mass shooting, this time in Dayton, Ohio. Again an automatic attack rifle was used. Nine people were killed.

Between January and February, 2019, President Donald Trump's Facebook page ran about 2,200 ads referring to immigration as an "invasion".



Figure 9.11: Family members mourning the victims of the El Paso murders.



Figure 9.12: A woman lights a candle at a makeshift memorial outside Walmart, near the scene of a mass shooting which left 22 people dead, on August 4, 2019, in El Paso, Texas.

Buffalo shooting, 2022

The 2022 Buffalo shooting was mass murder committed by 18-year-old Payton S. Gendron, a white supremacist. He killed 10 black people at Tops Friendly Supermarket in Buffalo, New York, and injured three other people. During the shooting, Gendron wore a military.style helmet with an attached camera, from which he live-streamed the attack on Twitch. He also wrote a manifesto in which he described himself as an ethno-nationalist and subscribed to the Great Replacement Theory, according to which, white people are being deliberately replaced by non-whites.

Gendron was captured alive, and has been charged with first-degree murder.



Figure 9.13: Garnell Whitfield, a former Buffalo fire commissioner whose mother was killed in the mass shooting at Tops Friendly Markets, testifying before the United States Senate Committee on the Judiciary.

Uvalde Texas school shooting, 2022

On May 24, 2022, 18-year-old Salvador Ramos murdered 19 students and two teachers at Robb Elementary school in Uvalde Texas. He also wounded 17 other people. Earlier on the same day, he had shot his grandmother in the head, severely injuring her.

Although Ramos had no documented mental health issues, his social media acquaintances said that he abused and tortured animals, such as cats, and livestreamed the abuses on Yubo. He also livestreamed himself threatening to kidnap and rape girls, and threatening to commit a school shooting.

When he entered Robb Elementary School Ramos began shooting both students and teachers. Police arrived outside the school, but they failed to enter and engage the shooter for more than an hour. Instead they violently restrained civilians, including parent who were desperately trying to enter the school to save their children. These police actions have been heavily criticized.



Figure 9.14: A memorial set up outside Robb Elementary school for the victims of the shooting.

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Chapter 10 FUELING THE FIRE IN UKRAINE

10.1 The war in Ukraine must stop now!

The Ukraine war and nuclear weapons

After his illegal and brutal invasion of Ukraine, Vladimir Putin put Russia's nuclear forces on high alert, thus threatening the world with an all-destroying nuclear war. The threat brought back memories of the Cuban Missile Crisis, when the world was balanced on the edge of a suicidal and genocidal nuclear war. We are once again reminded of the urgent need for the world to rid itself of nuclear weapons.

The danger of nuclear war

War was always madness, always immoral, always the cause of unspeakable suffering, economic waste and widespread destruction, and always a source of poverty, hate, barbarism and endless cycles of revenge and counter-revenge. It has always been a crime for soldiers to kill people, just as it is a crime for murderers in civil society to kill people. No flag has ever been wide enough to cover up the atrocities of war.

But today, the development of all-destroying thermonuclear weapons has put war completely beyond the bounds of sanity and elementary humanity.

Today, the existing nuclear weapons have half a million times the power of the bombs that devastated Hiroshima and Nagasaki. A thermonuclear war would destroy human civilization, together with most of the plants and animals with which we share the gift of life.

Research has shown that fire-storms produced by a nuclear war would send vast quantities of smoke into the atmosphere, blocking sunlight, and blocking the hydrological cycle. The climate would become very cold for a period of about ten years. Human agriculture would fail. Plants and animals would also be killed by the nuclear winter.

Can we not rid ourselves of both nuclear weapons and the institution of war itself? We must act quickly and resolutely before our beautiful world is reduced to radioactive ashes, together with everything that we love.



Figure 10.1: Vladimir Putin (right) and his long-time confidant Defense Minister Sergei Shoigu..

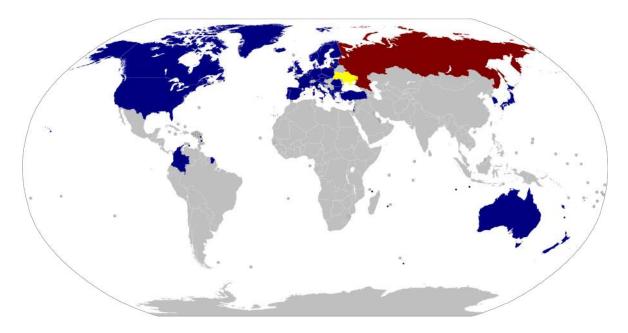


Figure 10.2: Countries sending military aid to Ukraine during the 2022 invasion.



Figure 10.3: Refugees crossing into Poland, March 2022.



Figure 10.4: Protest by Russians living in the Czech Republic, 26 March 2022. The white-blue-white flag is a symbol of anti-war protests in Russia..

The invasion of Ukraine cannot be called unprovoked

To understand how Russians feel about having western weapons and troops poured into a position on their nation's borders, we should imagine how the United States would react if large numbers of Russian weapons and troops were stationed in Mexico or Canada.

In 1991, after the breakup of the Soviet Union, George H.W. Bush and his Secretary of State, James Baker, promised Mikhail Gorbachev that if he agreed to the unification of Germany, NATO would not expand eastward, toward Russia, "not one inch". The promise was broken almost immediately by Bill Clinton, who helped to bring the Czech Republic, Hungary and Poland into NATO. Russians saw this not only as a betrayal, but also as an act of aggression.

The Monroe Doctrine

There is no document more fundamental to the foreign policy of the United States than the Monroe Doctrine. It states that interference in the Western Hemisphere by European powers would be interpreted as an attack on the United States, and would be opposed by the United States. The Monroe Doctrine has been used to justify U.S. interventions in Central America and in the Caribbean. Understandably, the United States wishes to have its backyard secure. Why should Russia not have the same wish?

The U.S. should stop threatening Russia

Because Russia's fears are legitimate, and based on historical suffering, the U.S, and its allies should stop threatening Russia. Nuclear missiles should be removed from positions near the Russian border, and the eastward expansion of NATO should be halted.

A diplomatic solution to the conflict is the only way to end it

UN Secretary General António Guterres has urged Russia and Ukraine to negotiate an immediate cease-fire and a mutually agreeable settlement to end the conflict. However, this rational solution is opposed by politicians in the United States and elsewhere, who are influenced by money from giant arms corporations. Thus, more and more heavy weapons are sent to Ukraine, pouring oil onto the flames, and enriching the merchants of death. This must stop, and a diplomatic solution must be found under Secretary General Guterres' wise leadership.

10.2 Ukraine and the danger of nuclear war

The need for restraint and balance

The current situation in Ukraine and the Crimean Peninsula is an extremely dangerous one. Unless restraint and a willingness to compromise are shown by all of the the parties involved, the crisis might escalate uncontrollably into a full-scale war, perhaps involving nuclear weapons. What is urgently required is for all the stakeholders to understand each other's positions and feelings. Public understanding of the points of view of all sides is also very much needed.

We in the West already know the point of view of our own governments from the mainstream media, because they tell us of nothing else. For the sake of balance, it would be good for us to look closely at the way in which the citizens of Russia and the Crimean Peninsula view recent events. To them the overthrow of the government of Viktor Yanukovitch appears to be another in a long series of coups engineered by the US and its allies. The list of such coups is very long indeed. One can think, for example of the the overthrow Iran's democratically elected Prime Minister, Mohammad Mosaddegh, or the coup that overthrew Chile's democratically elected President, Salvador Allende, and replaced him with General Pinochet. There are very many other examples:

During the period from 1945 to the present, the US interfered, militarily or covertly, in the internal affairs of a large number of nations: China, 1945-49; Italy, 1947-48; Greece, 1947-49; Philippines, 1946-53; South Korea, 1945-53; Albania, 1949-53; Germany, 1950s; Iran, 1953; Guatemala, 1953-1990s; Middle East, 1956-58; Indonesia, 1957-58; British Guiana/Guyana, 1953-64; Vietnam, 1950-73; Cambodia, 1955-73; The Congo/Zaire, 1960-65; Brazil, 1961-64; Dominican Republic, 1963-66; Cuba, 1959-present; Indonesia, 1965; Chile, 1964-73; Greece, 1964-74; East Timor, 1975-present; Nicaragua, 1978-89; Grenada, 1979-84; Libya, 1981-89; Panama, 1989; Iraq, 1990-present; Afghanistan 1979-92; El Salvador, 1980-92; Haiti, 1987-94; Yugoslavia, 1999; and Afghanistan, 2001-present, Syria, 2013-present. Egypt, 2013-present. Most of these interventions were explained to the American people as being necessary to combat communism (or more recently, terrorism), but an underlying motive was undoubtedly the desire to put in place governments and laws that would be favorable to the economic interests of the US and its allies.

For the sake of balance, we should remember that during the Cold War period, the Soviet Union and China also intervened in the internal affairs of many countries, for example in Korea in 1950-53, Hungary in 1956, Czechoslovakia in 1968, and so on; another very long list. These Cold War interventions were also unjustifiable, like those mentioned above. Nothing can justify military or covert interference by superpowers in the internal affairs of smaller countries, since people have a right to live under governments of their own choosing even if those governments are not optimal.

In the case of Ukraine, there is much evidence that the Western coup was planned long in advance. On December 13, 2013, US Assistant Secretary of State for Europe, Victoria Nuland said: "Since the declaration of Ukrainian independence in 1991, the United States has supported the Ukrainians in the development of democratic institutions and skills in promoting civil society and a good form of government... We have invested more than 5 billion dollars to help Ukraine to achieve these and other goals." Furthermore, Nuland's famous "Fuck the EU" telephone call, made well in advance of the coup, gives further evidence that the coup was planned long in advance, and engineered in detail.

Although Victoria Nuland's December 13 2013 speech talks much about democracy, the people who carried out the coup in Kiev can hardly be said to be democracy's best

representatives. Many belong to the Svoboda Party, which had its roots in the Social-National Party of Ukraine (SNPU). The name was an intentional reference to the Nazi Party in Germany. According to Der Spiegal's article about SNPU, "anti-Semitism is part of the extremist party's platform", which rejects certain minority and human rights. The article states that in 2013, a Svoboda youth leader distributed Nazi propaganda written by Joseph Goebbels. According to the journalist Michael Goldfarb, Svoboda's platform calls for a Ukraine that is "one race, one nation, one Fatherland".

The referendum regarding self-determination, which will soon take place in Crimea is perfectly legal according to international law. A completely analogous referendum will take place in Scotland, to determine whether Scotland will continue to be a part of the United Kingdom, or whether the majority of Scots would like their country to be independent. If Scotland decides to become independent, it is certain to maintain very close ties with the UK. Analogously, if Crimea chooses independence, all parties would benefit by an arrangement under which close economic and political ties with Ukraine would be maintained.

We should remember that for almost all the time since the reign of Catherine the Great, who established a naval base at Sevastopol, the Autonomous Republic Republic of Crimea has been a part of Russia. But in 1954 the Soviet government under Nikita Khrushchev passed a law transferring Crimea from the Russian Soviet Federative Socialist Republic to the Ukrainian Soviet Socialist Republic. After the dissolution of the Soviet Union, Russia still maintained its naval base at Sevastopol under an agreement which also allowed it to base a military force in Crimea.

It seems to be the intention of the US to establish NATO bases in Ukraine, no doubt armed with nuclear weapons. In trying to imagine how the Russians feel about this, we might think of the US reaction when a fleet of ships sailed to Cuba in 1962, bringing Soviet nuclear weapons. In the confrontation that followed, the world was bought very close indeed to an all-destroying nuclear war. Does not Russia feel similarly threatened by the thought of hostile nuclear weapons on its very doorstep? Can we not learn from the past, and avoid the extremely high risks associated with the similar confrontation in Ukraine today?

Lessons from the First World War

Since we are now approaching the 100th anniversary of the outbreak of the First World War, it is appropriate to view the crisis in Ukraine against the background of that catastrophic event, which still casts a dark shadow over the future of human civilization. We must learn the bitter lessons which World War I has to teach us, in order to avoid a repetition of the disaster.

We can remember that the First World War started as a small operation by the Austrian government to punish the Serbian nationalists; but it escalated uncontrollably into a global disaster. Today, there are many parallel situations, where uncontrollable escalation might produce a world-destroying conflagration.

In general, aggressive interventions, in Iran, Syria, Ukraine, the Korean Peninsula and

elsewhere, all present dangers for uncontrollable escalation into large and disastrous conflicts, which might potentially threaten the survival of human civilization.

Another lesson from the history of World War I comes from the fact that none of the people who started it had the slightest idea of what it would be like. Science and technology had changed the character of war. The politicians and military figures of the time ought to have known this, but they didn't. They ought to have known it from the million casualties produced by the use of the breach-loading rifle in the American Civil War. They ought to have known it from the deadly effectiveness of the Maxim machine gun against the native populations of Africa, but the effects of the machine gun in a European war caught them by surprise.

Today, science and technology have again changed the character of war beyond all recognition. In the words of the Nobel Laureate biochemist, Albert Szent Györgyi, "The story of man consists of two parts, divided by the appearance of modern science. In the first period, man lived in the world in which his species was born and to which his senses were adapted. In the second, man stepped into a new, cosmic world to which he was a complete stranger. The forces at man's disposal were no longer terrestrial forces, of human dimension, but were cosmic forces, the forces which shaped the universe. The few hundred Fahrenheit degrees of our flimsy terrestrial fires were exchanged for the ten million degrees of the atomic reactions which heat the sun. Man lives in a new cosmic world for which he was not made. His survival depends on how well and how fast he can adapt himself to it, rebuilding all his ideas, all his social and political institutions."

Few politicians or military figures today have any imaginative understanding of what a war with thermonuclear weapons would be like. Recent studies have shown that in a nuclear war, the smoke from firestorms in burning cities would rise to the stratosphere where it would remain for a decade, spreading throughout the world, blocking sunlight, blocking the hydrological cycle and destroying the ozone layer. The effect on global agriculture would be devastating, and the billion people who are chronically undernourished today would be at risk. Furthermore, the tragedies of Chernobyl and Fukushima remind us that a nuclear war would make large areas of the world permanently uninhabitable because of radioactive contamination. A full-scale thermonuclear war would be the ultimate ecological catastrophe. It would destroy human civilization and much of the biosphere.

Finally, we must remember the role of the arms race in the origin of World War I, and ask what parallels we can find in today's world. England was the first nation to complete the first stages of the Industrial Revolution. Industrialism and colonialism are linked, and consequently England obtained an extensive colonial empire. In Germany, the Industrial Revolution occurred somewhat later. However, by the late 19th century, Germany had surpassed England in steel production, and, particularly at the huge Krupp plants in Essen, Germany was turning to weapons production. The Germans felt frustrated because by that time there were fewer opportunities for the acquisition of colonies.

According to the historian David Stevensen (1954 -), writing on the causes of World War I, "A self-reinforcing cycle of heightened military preparedness... was an essential element in the conjuncture that led to disaster... The armaments race... was a necessary precondition for the outbreak of hostilities."

Today, the seemingly endless conflicts that threaten to destroy our beautiful world are driven by what has been called "The Devil's Dynamo". In many of the larger nations of the world a military-industrial complex seems to have enormous power. Each year the world spends roughly 2,000,000,000.000 US dollars on armaments, 2 trillion. This vast river of money, almost too large to be imagined, pours into the pockets of weapons manufacturers, and is used by them to control governments. This is the reason for the seemingly endless cycle of threats to peace with which the ordinary people of the world are confronted. Constant threats are needed to justify the diversion of such enormous quantities of money from urgently needed social projects into the bottomless pit of war.

World War I had its roots in the fanatical and quasi-religious nationalist movements that developed in Europe during the 19th century. Nationalism is still a potent force in todays world, but in an era of all-destroying weapons, instantaneous worldwide communication, and global economic interdependence, fanatical nationalism has become a dangerous anachronism. Of course, we should continue to be loyal to our families, our local groups and our nations. But this must be supplemented by a wider loyalty to the human race as a whole. Human unity has become more and more essential, because of the serious problems that we are facing, for example climate change, vanishing resources, and threats to food security. The problems are soluble, but only within a framework of peace and cooperation.

We must not allow the military-industrial complex to continually bring us to the brink of a catastrophic nuclear war, from which our civilization would never recover. The peoples of the earth must instead realize that it is in their common interest to join hands and cooperate for the preservation and improvement of our beautiful world.

Suggestions for further reading

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SELLING WEAPONS, SELLING WAR

Chapter 11

THE WORLD AS IT IS, AND THE WORLD AS IT COULD BE

11.1 We can build the world we choose

We know that war is madness, but it persists. We know that it threatens the future survival of our species, but it persists, entrenched in the attitudes of historians, newspaper editors and television producers, entrenched in the methods by which politicians finance their campaigns, and entrenched in the financial power of arms manufacturers, entrenched also in the ponderous and costly hardware of war, the fleets of warships, bombers, tanks, nuclear missiles and so on.

The institution of war seems to be linked to a fault in human nature, to our tendency to exhibit altruism towards members of our own group but aggression towards other groups if we perceive them to be threatening our own community. This tendency, which might be called "tribalism", was perhaps built into human nature by evolution during the long prehistory of our species, when we lived as hunter-gatherers in small genetically homogeneous tribes, competing for territory on the grasslands of Africa. However, in an era of nerve gas and nuclear weapons, the anachronistic behavior pattern of tribal altruism and intertribal aggression now threatens our survival.

Fortunately, our behavior is only partly determined by inherited human nature. It is also, and perhaps to a larger extent, determined by education and environment; and in spite of all the difficulties just mentioned, war has been eliminated locally in several large regions of the world. Taking these regions as models, we can attempt to use the same methods to abolish war globally. For example, war between the Scandinavian nations would be unthinkable today, although the region once was famous for its violence.

Once the citizens of the world realize what is happening; once they realize that the basic cause of the institution of war is the profiteering of arms manufacturers, and their financial influence on governments, we can stop this vast circular flow of money, this Devil's Dynamo. We can create the world that we choose. We can end the madness, suffering, waste and folly of war.

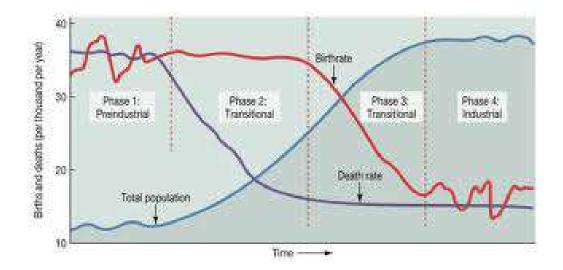


THE WORLD AS IT IS AND THE WORLD AS IT COULD BE



In the world as it is, 1.7 trillion US dollars are spent each year on armaments.

In the world as it could be, the enormous sums now wasted on war would be used to combat famine, poverty, illiteracy, and preventable disease.



In the world as it is, population is increasing so fast that it doubles every thirty-nine years. Most of this increase is in the developing countries, and in many of these, the doubling time is less than twenty-five years. Famine is already present, and it threatens to become more severe and widespread in the future.

In the world as it could be, population would be stabilized at a level that could be sustained comfortably by the world's food and energy resources. Each country would be responsible for stabilizing its own population.



In the world as it is, the nuclear weapons now stockpiled are sufficient to kill everyone on earth several times over. Nuclear technology is spreading, and many politically unstable countries have recently acquired nuclear weapons or may acquire them soon. Even terrorist groups or organized criminals may acquire such weapons, and there is an increasing danger that they will be used.

In the world as it could be, both the manufacture and the possession of nuclear weapons would be prohibited. The same would hold for other weapons of mass destruction.



In the world as it is, 40% of all research funds are used for projects related to armaments.

In the world as it could be, research in science and engineering would be redirected towards solving the urgent problems now facing humanity, such as the development of better methods for treating tropical diseases, new energy sources, and new agricultural methods. An expanded UNESCO would replace national military establishments as the patron of science and engineering.



In the world as it is, gross violations of human rights are common. These include genocide, torture, summary execution, and imprisonment without trial.

In the world as it could be, the International Human Rights Commission would have far greater power to protect individuals against violations of human rights.



In the world as it is, armaments exported from the industrial countries to the Third World amount to a value of roughly 17 billion dollars per year. This trade in arms increases the seriousness and danger of conflicts in the less developed countries, and diverts scarce funds from their urgent needs.

In the world as it could be, international trade in arms would be strictly limited by enforcible laws.



In the world as it is, an estimated 10 million children die each year from starvation or from diseases related to malnutrition.

In the world as it could be, the international community would support programs for agricultural development and famine relief on a much larger scale than at present.



In the world as it is, diarrhoea spread by unsafe drinking water kills an estimated 6 million children every year.

In the world as it could be, the installation of safe and adequate water systems and proper sanitation in all parts of the world would have a high priority and would be supported by ample international funds.



In the world as it is, malaria, tuberculosis, AIDS, cholera, schistosomiasis, typhoid fever, typhus, trachoma, sleeping sickness and river blindness cause the illness and death of millions of people each year. For example, it is estimated that 200 million people now suffer from schistosomiasis and that 500 million suffer from trachoma, which often causes blindness. In Africa alone, malaria kills more than a million children every year.

In the world as it could be, these preventable diseases would be controlled by a concerted international effort. The World Health Organization would be given sufficient funds to carry out this project.



In the world as it is, the rate of illiteracy in the 25 least developed countries is 80%. The total number of illiterates in the world is estimated to be 800 million.

In the world as it could be, the international community would aim at giving all children at least an elementary education. Laws against child labour would prevent parents from regarding very young children as a source of income, thus removing one of the driving forces behind the population explosion. The money invested in education would pay economic dividends after a few years.



In the world as it is, there is no generally enforcible system of international law, although the International Criminal Court is a step in the right direction.

In the world as it could be, the General Assembly of the United Nations would have the power to make international laws. These laws would be binding for all citizens of the world community, and the United Nations would enforce its laws by arresting or fining individual violators, even if they were heads of states. However, the laws of the United Nations would be restricted to international matters, and each nation would run its own internal affairs according to its own laws.



In the world as it is, each nation considers itself to be "sovereign". In other words, every country considers that it can do whatever it likes, without regard for the welfare of the world community. This means that at the international level we have anarchy.

In the world as it could be, the concept of national sovereignty would be limited by the needs of the world community. Each nation would decide most issues within its own boundaries, but would yield some of its sovereignty in international matters.



In the world as it is, the system of giving "one nation one vote" in the United Nations General Assembly means that Monaco, Liechtenstein, Malta and Andorra have as much voting power as China, India, the United States and Russia combined. For this reason, UN resolutions are often ignored.

In the world as it could be, the voting system of the General Assembly would be reformed. One possible plan would be for final votes to be cast by regional blocks, each block having one vote. The blocks might be. 1) Latin America 2) Africa 3) Europe 4) North America 5) Russia and Central Asia 6) China 7) India and Southeast Asia 8) The Middle East and 9) Japan, Korea and Oceania.



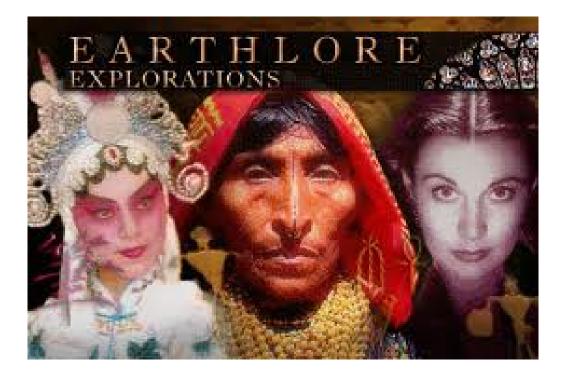
In the world as it is, the United Nations has no reliable means of raising revenues.

In the world as it could be, the United Nations would have the power to tax international business transactions, such as exchange of currencies. Each member state would also pay a yearly contribution, and failure to pay would mean loss of voting rights.



In the world as it is, young men are forced to join national armies, where they are trained to kill their fellow humans. Often, if they refuse for reasons of conscience, they are thrown into prison.

In the world as it could be, national armies would be very much reduced in size. A larger force of volunteers would be maintained by the United Nations to enforce international laws. The United Nations would have a monopoly on heavy armaments, and the manufacture or possession of nuclear weapons would be prohibited.



In the world as it is, young people are indoctrinated with nationalism. History is taught in such a way that one's own nation is seen as heroic and in the right, while other nations are seen as inferior or as enemies.

In the world as it could be, young people would be taught to feel loyalty to humanity as a whole. History would be taught in such a way as to emphasize the contributions that all nations and all races have made to the common cultural heritage of humanity.



In the world as it is, young people are often faced with the prospect of unemployment. This is true both in the developed countries, where automation and recession produce unemployment, and in the developing countries, where unemployment is produced by overpopulation and by lack of capital.

In the world as it could be, the idealism and energy of youth would be fully utilized by the world community to combat illiteracy and disease, and to develop agriculture and industry in the Third World. These projects would be financed by the UN using revenues derived from taxing international currency transactions.



In the world as it is, women form more than half of the population, but they are not proportionately represented in positions of political and economic power or in the arts and sciences. In many societies, women are confined to the traditional roles of childbearing and housekeeping.

In the world as it could be, women in all cultures would take their place beside men in positions of importance in government and industry, and in the arts and sciences. The reduced emphasis on childbearing would help to slow the population explosion.



In the world as it is, pollutants are dumped into our rivers, oceans and atmosphere. Some progress has been made in controlling pollution, but far from enough.

In the world as it could be, a stabilized and perhaps reduced population would put less pressure on the environment. Strict international laws would prohibit the dumping of pollutants into our common rivers, oceans and atmosphere. The production of greenhouse gasses would also be limited by international laws.



In the world as it is, there are no enforcible laws to prevent threatened species from being hunted to extinction. Many indigenous human cultures are also threatened.

In the world as it could be, an enforcible system of international laws would protect threatened species. Indigenous human cultures would also be protected.



In the world as it is, large areas of tropical rain forest are being destroyed by excessive timber cutting. The cleared land is generally unsuitable for farming.

In the world as it could be, it would be recognized that the conversion of carbon dioxide into oxygen by tropical forests is necessary for the earth's climatic stability. Tropical forests would also be highly valued because of their enormous diversity of plant and animal life, and large remaining areas of forest would be protected.



In the world as it is, opium poppies and other drug-producing plants are grown with little official hindrance in certain parts of Asia, the Middle East, and Latin America. Hard drugs refined from these plants are imported illegally into the developed countries, where they become a major source of high crime rates and human tragedy.

In the world as it could be, all nations would work together in a coordinated world-wide program to prevent the growing, refinement and distribution of harmful drugs,



In the world as it is, modern communications media, such as television, films and newspapers, have an enormous influence on public opinion. However, this influence is only rarely used to build up international understanding and mutual respect.

In the world as it could be, mass communications media would be more fully used to bridge human differences. Emphasis would be shifted from the sensational portrayal of conflicts to programs that widen our range of sympathy and understanding.



In the world as it is, international understanding is blocked by language barriers.

In the world as it could be, an international language would be selected, and every child would be taught it as a second language.



In the world as it is, power and material goods are valued more highly than they deserve to be. "Civilized" life often degenerates into a struggle of all against all for power and possessions. However, the industrial complex on which the production of goods depends cannot be made to run faster and faster, because we will soon encounter shortages of energy and raw materials.

In the world as it could be, nonmaterial human qualities, such as kindness, politeness, and knowledge, and musical, artistic or literary ability would be valued more highly, and people would derive a larger part of their pleasure from conversation, and from the appreciation of unspoiled nature.



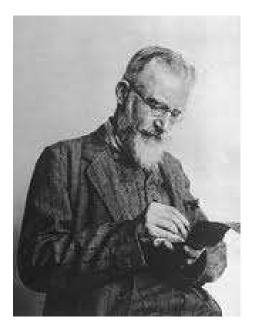
In the world as it is, the institution of slavery existed for so many millennia that it seemed to be a permanent part of human society. Slavery has now been abolished in almost every part of the world. However war, an even greater evil than slavery, still exists as an established human institution.

In the world as it could be, we would take courage from the abolition of slavery, and we would turn with energy and resolution to the great task of abolishing war.



In the world as it is, people feel anxious about the future, but unable to influence it. They feel that as individuals they have no influence on the large-scale course of events.

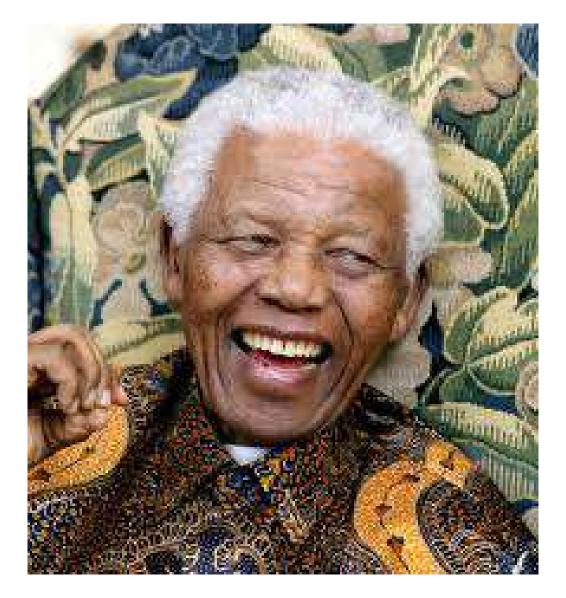
In the world as it could be, ordinary citizens would realize that collectively they can shape the future. They would join hands and work together for a better world. They would give as much of themselves to peace as peace is worth.



As George Bernard Shaw once said, "Most people look at the world as it is and ask 'Why?'. We should look at the world as it could be and ask, 'Why not?"









11.2 A war-free world is possible

Here are some quotations from Sir Joseph Rotblat's Nobel Peace Prize Lecture in 1995:

"...The fantastic advances in communication and transportation have shrunk our globe. All nations of the world have become close neighbors. Modern information techniques enable us to learn instantly about every event in every part of the globe. We can talk to each other via the various networks. This facility will improve enormously with time, because the achievements so far have only scratched the surface. Technology is driving us together. In many ways we are becoming like one family.

"In advocating the new loyalty to mankind I am not suggesting that we give up national loyalties. Each of us has loyalties to several groups - from the smallest, the family, to the largest, at present, the nation. Many of these groups provide protection for their members. With the global threats resulting from science and technology, the whole of humankind now needs protection. We have to extend our loyalty to the whole of the human race.

"What we are advocating in Pugwash, a war-free world, will be seen by many as a Utopian dream. It is not Utopian. There already exist in the world large regions, for example, the European Union, within which war is inconceivable. What is needed is to extend these to cover the world's major powers...

"The quest for a war-free world has a basic purpose: survival. But if in the process we learn how to achieve it by love rather than by fear, by kindness rather than by compulsion; if in the process we learn to combine the essential with the enjoyable, the expedient with the benevolent, the practical with the beautiful, this will be an extra incentive to embark on this great task.

"Above all, remember your humanity."

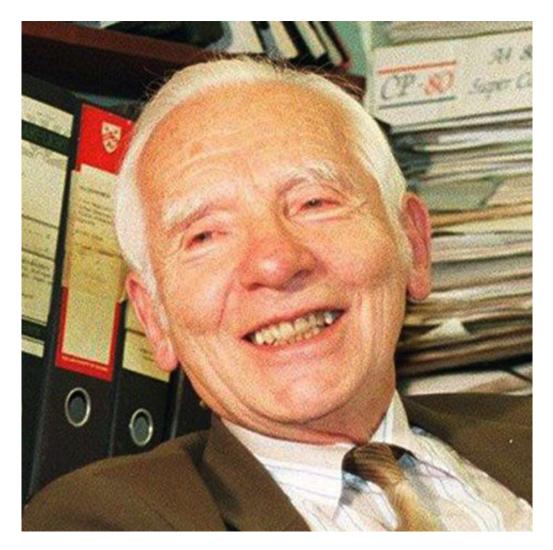


Figure 11.1: Sir Joseph Rotblat in 1995, shortly after being informed that he had been awarded the Nobel Peace Prize. In the background we see contributers' papers from Pugwash conferences, which he edited. Each year a book of conference proceedings, edited by Sir Joseph, was published and distributed to decision-makers worldwide. The Pugwash Conferences on Science and World Affairs dealt with many issues, but their main aim was to reduce the danger of an all-destroying thermonuclear war.

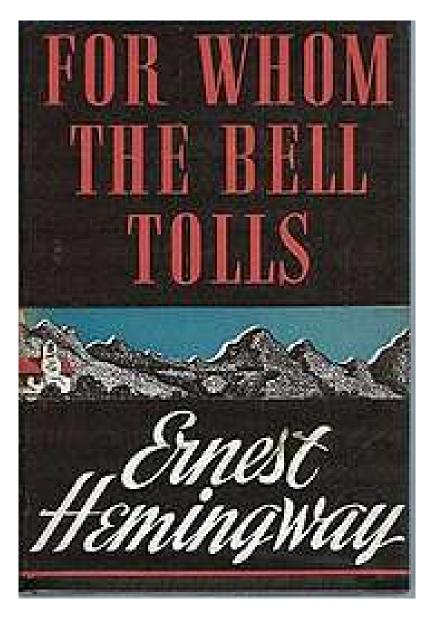


Figure 11.2: The cover of the first edition of Hemingway's famous book describing the Spanish Civil War. The title is taken from John Donne, who wrote: "No man is an island entire of itself; every man is a piece of the continent, a part of the main; if a clod be washed away by the sea, Europe is the less, as well as if a promontory were, as well as any manner of thy friends or of thine own were; any man's death diminishes me, because I am involved in mankind. And therefore never send to know for whom the bell tolls; it tolls for thee." By choosing this title, Hemingway tells us that Spain's change from democracy to fascist dictatorship, the outcome of the Spanish Civil War of 1936-1939, is important to and affects everyone in the world.

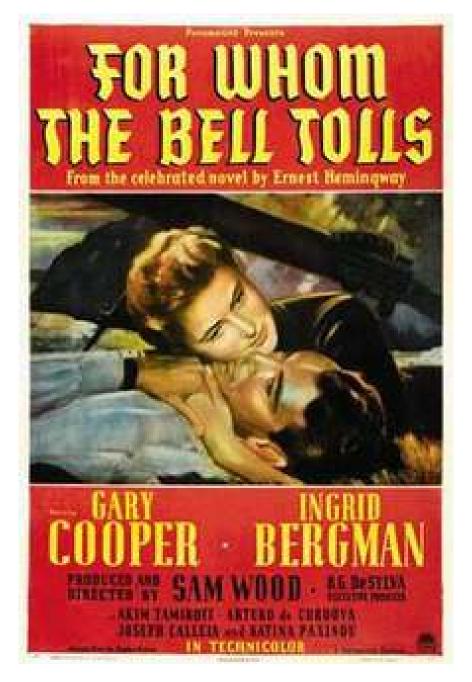


Figure 11.3: Poster for the 1943 film adaptation of Hemingway's novel. It was nominated for nine Academy Awards. Hemingway personally chose Ingrid Bergman and Gary Cooper for the staring roles.

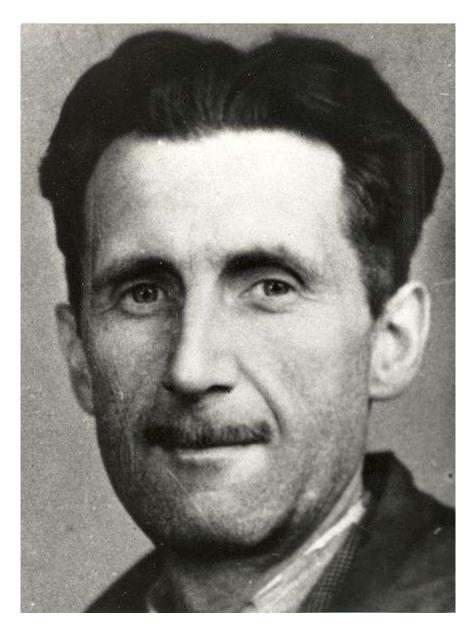


Figure 11.4: George Orwell fought on the Republican side in the Spanish Civil War, and his book, *Homage to Catalonia* describes his experiences, which affected all of his future work as a writer. Regarding the effect of the war on his political outlook, he wrote: "Every line of serious work that I have written since 1936 has been written, directly or indirectly, against totalitarianism and for Democratic Socialism, as I understand it."

11.2. A WAR-FREE WORLD IS POSSIBLE



Figure 11.5: Mussolini defined fascism as "corporatism". It unites the corporate state and the mob.

Index

A billion deaths from famine, 112 A new enemy: Communism, 195 A war-free world is possible, 280 Abe, Shinzo, 113 Abolition of nuclear weapons, 99, 105 Abolition of war, 105 Absolute sovereignty, 10 Academy Awards, 280 Accident waiting to happen, 62, 111, 126 Accidental nuclear war, 62, 72, 99, 105, 123, 129Accidents, 68 Act of Valor, 81 Admiral von Turpitz, 48 Adolf Hitler, 50 Africa, 74 Against totalitarianism, 280 Agent Orange, 103, 159 Aggressive US foreign policy, 192 Aging storage tanks, 124 Agriculture, 64, 66, 106 Air travel less pleasant, 170 Airbus, 77 Al-Qaeda, 71, 73 All nations would suffer, 111 All-destroying nuclear war, 126 Alliances, 16 Alsace, 15 Alsace-Loraine, 20 Alt-right, 199 Alternative media, 180 Ambition, 18 American Sniper, 81 Americium, 72 Anachronism of nation-states, 9

Anarchy, 9 Animal Farm, 181 Annan, Kofi, 65, 72, 123 António Guterres, 236 Anthropocene, 81 Anthropogenic climate change, 72 Anti-semitism, 23, 33 Anticommunist alternative, 51 Antimalarial program, 100 Anxiety about the future, 101 Archduke Francis Ferdinand, 16 Architects for 9/11 Truth, 170 Armaments (\$1.7 trillion spent on), 100 Armaments race, 47, 49 Armistice, 19 Armistice Day, 109 Arms control agreements, 81 Arms exported to Africa, 192 Arms manufacturers, 49, 169 Arms race, 47 Army training program, 81 Article VI, 62 Artillery, 18 Asia, 68Assange, Julian, 207 Assassination, 16 Assassination attempts, 71 Assassination using drones, 169 Asteroids, 62 Astonishing unrealism, 111 Asylum, 102 Atoms for peace?, 112 Atrocities, 14 Attacking civil liberties, 170 Attacks on democracy in the US, 195

INDEX

Auschwitz, 50 Australia's Foreign Wars, 43 Austria, 10, 16 Austria-Hungary, 16, 47 Austro-Hungarian Emperor, 19 Automobile accidents, 171 B-52 bomber, 126 Babies torn from mothers, 96 BAE Systems, 77 Balkan Peninsula, 16 Barak, Ehud, 111 Barbed wire, 18 Barnaby, Frank, 71, 123 Baron Redesdale, 34 Battle of Leipzig, 12, 13 Battleships, 48 Bavaria, 21, 23 Bay of Pigs Invasion, 139, 142 Beasts of England, 181 Bedjaoui, Muhammad, 61 Behind Enemy Lines, 81 Belarus, 68 Belgium, 17, 20 Berghof, 41 Berlin destroyed, 96 Bernard Lowen, 105 Bhutto, Zulfiquar Ali, 71 Big Brother, 184 Bikini bomb, 192 Bikini explosion, 99 Bilateral agreements, 104 Birgitta Jónsdóttir, 206 Birth anomalies, 103 Birth defects, 99, 159 Bismark, Otto von, 15, 16 Black comedy, 126 Black Hawk Down, 81 Blair, Bruce G., 62 Bloated military budgets, 194 Boeing, 77 Bohr, Niels, 69, 118 Bohr-Wheeler theory, 69, 118

Bombardment of Copenhagen, 94 Bombing of Cambodia and Laos, 162 Bombs Over Cambodia, 163 Books, 9 Bottomless pit of war, 170 Braun, Eva, 34 Bread and circuses, 180 Breakdown of human society, 111 Breivik, Anders Behring, 83 Brexit, 81 Britain, 47 British Union of Fascists, 34 Brockendorff-Rantzau, Count Ulrich von, 20 Brose Eric, 47 Brutalization, 18 Brutalization of values, 49 Buckley, Ian Keneth, 43 Buffalo shooting, 2022, 229 Building 7, 170, 171 Bulwark for the Establishment, 43 Burmese Days, 181 Burning the Koran, 169 Bush family and Hitler, 50 Bush political dynasty, 51 Bush, George W., 50 Bush, Prescott, 50 Bush/Nazi connection, 51 Caldecott, Helen, 52 Call of Duty, 83 Calogero, Francesco, 63 Cambodia, 163 Cancer and birth defects, 192 Cancer caused by radioactivity, 103 Cancer risk from Hanford, 125 Canons, use in warfare, 9 Canton civilian bombing, 95 Castles, 9 Catastrophic accident, 99 Catastrophic global war, 49 Catastrophic mistake, 62 Catastrophic nuclear war, 65, 66, 105, 106, 111, 126, 129

Censorship of the news, 202 Central government, 10 Central Intelligence Agency, 139 Central monarchs, 9 Chad, 75 Chain-reacting pile, 69, 118 Chamberlain, Neville, 46, 95 Chance of survival, 65 Che Guevara, 139 Cheating ring, 126 Chemical properties, 69 Chemical warfare, 103 Chemical weapons, 159 Chernobyl, 112, 113 Chernobyl disaster, 68, 192 Child soldiers, 101 Children killed by wars, 60, 100 China, 75 China's large dollar holdings, 129, 177 Chinese-Russian support, 111 Christian and pagan symbolism, 12 Christian elements of national cult, 13 Churchill's warnings, 46 CIA, 139 CIA insider Lindauer, 170 Civil rights, 171 Civil society, 65 Civil wars, 74, 75, 100 Civilian victims of war, 60 Civilians are just hostages, 192 Civilians as hostages, 99 Civilians as targets, 65 Civilians killed in war, 100 Civilization's crisis, 99 Clark, General Wesley, 73 Clemenceau, Georges, 19 Climate and environment, 81 Climate change, 68, 72, 170, 176 Climate Conference, 176 Cluster bombs, 103 Coal, 72 Coal and steel, 51 Cohesion, 14

Cold War, 62, 74, 99, 100, 104, 124, 142, 169, 171, 184 Collapse of Building 7, 170 Collective body, 94 Colonial era, 104 Colonialism and World War I, 49 Columbine school massacre, 222 Common bonds of humanity, 93 Communication, 9 Communist government of Russia, 19 Communist Party, 52 Communist revolution, 19 Communist revolution in Russia, 43 Complicity in the January 6 insurrection, 199Computer games, 81 Concentration of hysteria, 176 Conditioning of soldiers, 94 Conference on Disarmament, 108 Conscience banished, 93 Conscience of humanity, 95 Consolidated Silesian Steel, 51 Consumed radioactive food, 124 Container ships, 72, 123 Controlled demolition, 170 Convention of 1792, 10 Cooperative future, 99 COP21, 176 Core meltdown, 68 Corporate-controlled media, 176 Corpses left unburied, 96 Corrupt local officials, 104 Cost of war, 18, 19, 49 Countries sending Ukraine military aid, 233 Coups, torture, and illegal killing, 202 Court-marshalled and shot, 18 Crippled for life, 18 Critical mass, 69, 71, 118 Crowd-erected gallows, 195 Cuban exiles, 139 Cuban Missile Crisis, 10, 52, 142, 233 Cult of nationalism, 13 Culture of violence, 74, 81, 104

Cumulative risk, 65 Czar Alexander III, 16 Damage to infrastructure, 102 Danger of nuclear war, 233 Dangerous proliferation, 112 Dangerous radioisotopes, 114 Dangers of nuclear power, 68 Daniel Ellsberg, 154, 155, 208 Danish fleet, 94 Danton, 10 Dark government, 201 Death-machine, 17 Deaths, 62-78 million, 110 Decay of democracy, 58 Declaration of Human Rights, 102 Declaration of war, 16 Democratic Party, 20 Democratic Republic of Congo, 75 Depleted uranium shells, 103 Deprived of civil rights, 171 Designated as an enemy, 93 Deterrence, flaws in concept, 60 Developing countries, 103 Development, 100 Devil's Dynamo, 58, 240, 247 Dialects, 12 Direct costs of war, 100 Directly used fuels, 72 Disarmament, 60 Disease, 75, 110 Diseases related to poverty, 100 Disempowered TV viewers, 180 Disposal of radioactive waste, 114 Distanced from killing, 83 Divided opinion on gun control, 215 Donald Trump, 195, 227 Donne, John, 280 Doomsday Machine, 126 Dr. Strangelove, 126 Drank radioactive milk, 124 Dreadnought-class ships, 47 Dresden destroyed, 96

Driven like cattle, 170 Driven towards war, 177 Drone operators, 83 Droves of vicious rats, 96 Drug addiction, 52, 126 Drug-resistant tuberculosis, 103 Drugs, 129 Duke and Duchess of Windsor, 40 Duke of Windsor gives Nazi salute, 41 Dulce et Decorum Est, 109 Dwight D. Eisenhower, 195 East Asia, 75 Eastern Europe, 68 Eastward expansion of NATO, 236 Eckart, Dietrich, 23 Ecological catastrophes, 180 Ecological damage, 103, 159 Economic chaos, 21 Economic collapse, 170 Economic Consequences of the Peace, 20 Economic hegemony, 104 Economic inequality, 104 Economic influence, 58 Economic interdependence, 9 Economic waste, 129 Education, 100 Edward Snowden, 201 Edward VIII, 40 Effects of war on children, 101 Eisenhower administration, 139 Eisenhower's Farewell Address, 58, 195 Eisenhower, Dwight D., 112, 169 El Passo Walmart shooting, 227 ElBaradei, Mohamed, 63, 72 Electrical generating plants, 102 Electricity generation, 70, 72 Ellsberg, Daniel, 208 Emotions, 9, 10, 16 Emperor Napoleon III, 15 Emperor's Battle, 19 End of the Cold War, 195 Endemic conflict, 75

Energy crisis, 68 England, 16, 17 Enlightenment, 10 Enormous human suffering, 104 Enrichment, 63 Environmental catastrophe, 177 Environmental holocaust, 103 Epidemics, 101 Equity, 70 Eradication of smallpox, 100 Eric Arthur Blair, 180 Eritiria, 75 Erosion of self-respect, 93 Escalation, 177 Escalatory cycles of violence, 60 Essays by George Orwell, 185 Ethical principles, 60 Ethiopia, 75 Everyone treated as criminal, 170 Excuse for invading Iraq, 170 Expanded German navy, 48 Explosive charges and 9/11, 170 Explosives, 17 Exporters of small arms, 104 Exporting weapons and war, 192 Exposure, 110 Extortion, 72 Extracting local resources, 104 Extremely long half-lives, 114 Führer's personality, 41 Fallout, 61 False threats, 177 Famine, 64, 101, 176 Famine relief, 100 Fanaticism, 11, 14 Fascism unites corporations and the mob, 280Fast breeder reactors, 70, 119 Fast neutrons, 70 Fatal accident, 63 Fatherland, 12, 13

Fear of communism, 51

Fear of revolution, 44 Feelings of panic, 99 Fermi, Enrico, 69, 118 Festivals, 12, 13 Feudal barons, 9 Feudal landowning class, 17 Feudal principalities, 10 Fichte, Johan Gottlieb, 11 Fichtians, 14 Fidel Castro, 139, 142 Fighting in the War Room, 126 Films that glorify war, 81 Financial architects of Nazism, 50 Finland, 68 Fire, 14 Fire storms, 66, 106 Firebombing of Dresden, 60 Firebombing of Hamburg, 96 Firestorms, 96, 193, 233, 239 First World War, 18 Fission of uranium, 69 Fission reaction, 105 Fissionable isotopes, 63, 69 Fissionable materials, 72 Flags, 13 Fleeing refugees targeted, 96 For Democratic Socialism, 280 Foreign women, 126 Forge of Empires, 83 Former Soviet Union, 75 Fossil fuel corporations, 177 Fossil fuels, 176 Fourteen Points, 19 Fractional reserve banking, 170 France, 10, 15, 16, 20, 47, 75 Frederick the Great, 10 Free-falling collapse, 170 Freedom of information, 206 Freeman-Mitford, Algernon, 34 Freeman-Mitford, David, 34 French coal mines, 19 French culture, 10 French Exocet missiles, 189

290

French Revolution, 10, 11 Friedrich Krupp AG, 48 Frisch, Otto, 118 Fukushima, 112, 113 Fukushima disaster, 192 Full Spectrum Warrier, 81 Full-scale nuclear war, 142 Fusion energy, 73 Future generations, 99 Göring, Hermann, 41 Gas warfare, 109 General Dynamics, 77 Genetic pool, 105 Genocide, 60 George H.W. Bush, 50 George Orwell, 180 George W. Bush, 50 George Washington, 195 German Kaiser, 19 German Luftwaffe, 96 German May, 13 German nationalism, 11 German nationalist movement, 11, 12, 15 German nationalists, 13 German naval buildup, 47 German-speaking students, 10 Germany, 10, 20, 47 Germany's armament industry, 50 Germany's wars, 12 Global famine, 177 Global food security, 170 Global governance, 104 Global hegemony, 75 Global power, 75 Global war, 18 Global warming, 68, 72 Globalization, 9 Glory, 11, 17 Goebbels, Joseph, 41 Goodman, Amy, 73 Governmental terrorism, 94 Graphite moderator, 69

Grave implications, 58 Great Depression, 44, 129 Great Replacement Theory, 229 Great-power competition, 75 Greece, 47 Green Berets, 81 Greenland, 68 Grey, Colin S., 62 Grey, Sir Edward, 17 Guernica, 95 Guilt, 60 Gulf War of 1990, 102, 103 Gulf Wars, 10 Gun culture in the US, 215 Gun-type bomb, 71 Guns, 48 Guns in schools?, 81 Guterres, António, 108, 236 Gymnasts, 13 Hair-trigger alert, 62, 99, 111 Hambrach Castle, 13 Hanford experiments on humans, 125 Hapsburg Emperors, 16 Hatred, 18 Hegel, G.W.F., 14 Heine, Heinrich, 14 Herbicides, 103 Hermann's Battle, 14 Hess, Rudolf, 41 **HEU**, 70 High-yield agriculture, 177 Highly enriched uranium, 63, 70 Highly-enriched uranium, 65, 113 Hiroshima, 68, 69, 96, 105, 110, 113, 118 Historically frontiersmen relied on guns, 215 Hitler and the Windsors, 40 Hitler and Unity Mitford, 34 Hitler as Chancellor, 52 Hitler invades Poland, 95 Hitler's bombing of Warsaw, 96 Hitler's rise to power, 48, 51 Hitler, Adolf, 21–23, 34, 40

HIV/AIDS, 103 HMS Dreadnought, 48 Hoffer, Eric, 93 Hollywood glorification of guns, 215 Holy festivals, 12 Holy war, 12 Homage to Catalonia, 181, 280 Hoodbhoy, Pervez, 71, 123 Hoover, Herbert, 20 Hospitals targeted, 96 House of Representatives, 20 Houston gun show, 215 Howitzers, 48 Human civilization threatened, 99 Human error and nuclear war, 105 Human failings, 62 Human rights abuses, 104 Human sacrifice, 110 Human species might survive, 176 Humanitarian law, 60, 62, 130 Humanitarian tragedies, 80 Hunter-gatherers, 9 Huntington Ingals, 77 Hydrological cycle, 66, 107, 112 Hysteria, 176 **IAEA**, 72 ICBM's Carey drank heavily, 126 Illegality of nuclear weapons, 60 Illiteracy, 100 Imperial Police, 181 Incendiary bombings, 66, 106 Incendiary rockets, 94

Incendiary bombings, 66, 106 Incendiary rockets, 94 Incompetent person, 126 Increased arms trading, 80 India, 10, 65, 75 India's nuclear weapons, 70, 119 India-Pakistan war danger, 123 Indirect costs of war, 100 Indiscriminate mass slaughter, 60 Individual conscience, 93 Individual identity lost, 94 Individual, value of, 11, 12 Individualism, 12 Indo-China conflicts, 100 Industrial index, 16 Industrial Revolution, 47 Industrialized nations, 104 Inflation, 21 Infrastructure, 100 Injustice, economic, 9 Inner circle of Nazi leaders, 34 Innocent grandmothers, 170 Insane person, 126 Institution of war, 65, 93, 99, 100, 104 Insurrection of peoples, 10 Interdependence, 10 Internally displaced persons, 101 International borders, 102 International control, 63, 70 International cooperation, 81 International Court of Justice, 130 International law, 104 Intolerable economic inequality, 104 Invasion of Belgium, 17 Invasion of Transvaal, 48 Iodine 131, 124 Iran, 65, 74, 75 Iran nuclear deal, 80 Iran, attack by Israel, 126 Iraq, 74 Iron and steel company, 48 Irresponsible decisions, 123 Irreversible damage to civilization, 105 Isotopes, 69, 70 Isotopes of uranium, 69 Israel, 75, 126 Israel's nuclear weapons, 70, 119 Italy, 16, 20, 47 Jack D. Ripper, 126

January 6 insurrectionists, 195 Japan, 47 Japanese terror bombing, 95 Jelly fish babies, 192 Jewish employees, 52

Joe Manchin, 196 John F. Kennedy, 139, 143 Johnson Administration, 155 Julian Assange, 203, 207 Kahr, Dr. Gustav von, 22 Kaiser Wilhelm I, 15 Kaiser Wilhelm II, 16, 18, 48, 111 Kantians, 14 Kapp Putsch, 21 Kassel destroyed, 96 Keep terrorism idea fresh, 170 Keynes, John Maynard, 20 Khan, A.Q., 71, 119 Khmer Rouge, 163 Khruschev, 139 Kiel Canal, 20 Killing civilians, 94 Kim Jong-un, 77 King, Martin Luther, 52 Klare, Michael, 104 Kleist, 14 Kobe firebombed, 96 Korean Peoples Army, 77 Korean War, 10 Kristallnacht, 52 Krupp family business, 48 Kubrick, Stanley, 126 Kyrsten Sinema, 196 L-3 Communications, 77 Laos, 162 Large-scale famine, 176 Largest company in Europe, 48 Launch officers cheating, 126 League of Nations, 20 Lebanese civil war, 100 Lebanon, 74 Lebensraum, 43 LeMay, General Curtis E., 62 Leonardo-Finmeccanica, 77 Less developed countries, 104 Lessons from the First World War, 238 LEU, 70 Level playing field, 177 Liberalism, 12 Libya, 74 Life on earth threatened, 99 Life styles from mass media, 179 Light weapons, 74 Limited reserves of uranium, 119 Limited war, 12 Lindauer, Susan, 170 Living from war, 58 Lloyd George, David, 44 Lockheed Martin, 77 Loot, 14Lord Cranborne, 95 Lorraine, 15 Loss of 175 million lives, 103 Loss of life, 100 Low enriched uranium, 70 Loyalty, 9 Loyalty to humanity as a whole, 206 Lucky Dragon, 99 Ludendorff, General, 19, 21, 23, 51 Müller, Adam, 11 Machine gun, 18 Mafia, 71 Magnetic bottles, 73 Maintain the Old Order, 45 Mainz destroyed, 96 Malaria, 103 Malnutrition, 100, 101 Manchin, Joe, 196 Manufactured goods, 16 Marseillaise-singing masses, 11 Marshall Islands, 99, 192 Martyred for telling the truth, 207 Mass media, 81, 178 Mass meeting, 13 Mass shootings, 219 Masses, 11 Massive nuclear retaliation, 60 Master Race, 23

Mattas, James, 75 McNamara's Evil Lives On, 153 Media as a battleground, 178 Media exaggeration, 176 Media neglect of climate change, 180 Medical consequences of war, 100 Megalomania, 16 Mein Kampf, 23 Men's choirs, 13 Mercenary soldiers, 11 Merchants, 9 Methane-hydrate feedback, 176 Middle East, 10, 16 Middle East conflicts, 80 Might makes right, 104 Militarism in North Korea, 75 Militarism's hostages, 192 Militaristic government, 113 Military advocate invading Cuba, 143 Military budgets, 104 Military Expenditure Database, 77 Military might, 104 Military technology, 80 Military-industrial complex, 49, 58, 104, 169– 171, 192, 194, 240 Millions starve, 171 Miscalculation, 62 Misplaced power, 58 Missile defense system, 65 Missile Envy, 52 Mistaken for a missile strike, 62 Mitford sisters advocate fascism, 33 Mitford, Diana, 34 Mitford, Unity Valkyrie, 33 Mobilization, 16 Modern powerholders, 178 Modern societies, 179 Modernism, 65 Molten steel, 170, 171 Monarchists, 22 Money buys the votes of politicians, 194 Monroe Doctrine, 236 Moral responsibility surrendered, 94

Morality, 11 More guns than people in the US, 215 More military spending, 80 More violent conflicts, 80 Moscow-Washington hotline, 143 Mosley visits Mussolini, 38 Mosley, Sir Oswald, 34 Movement of refugees, 80 Moves away from the dollar, 194 Multigenerational families, 179 Multinational corporations, 105 Multinational network, 51 Munich, 22 Murder, 14 Murder justified in war?, 93 Murderous night-time raids, 169 Musharraf, Pervez, 71 Mussolini and Mosley, 38 Mutually Assured Destruction, 192 Myth, 12 Nagasaki, 68, 69, 96, 110, 113, 118, 124 Nanjing Massacre, 95 Nanothermite, 171 Napoleon Bonaparte, 10, 12, 14, 15, 94 Narrow escapes, 193 Nation-state, 9–11 National cult, 13 National Geographic Chanel, 178 National identity, 10, 14 National pride, 65 National Rifle Association, 81 National Security Council, 143 National Socialist German Workers Party, 21National symbolism, 13 Nationalism, 9–12, 14, 19 Nationalism in England, 14 Nationalism, nuclear, 71 Nationalists, 22 NATO bases in Ukraine, 238 NATO's eastward expansion, 236 Naval arms race, 47, 52

Naval supremacy, 48 Nazi Germany, 40, 50 Nazi Party, 13, 21–23, 50–52 Need for enemies, 169 Nelson, 14 Neptunium, 72 Netanyahu, Benjamin, 111, 126, 129 Neutral countries, 60, 177 Neutral nations, 111 Neutrons, 69 New Agenda Resolution, 62 New ethics, 193 New leaders, 99 New political structures, 193 New York Times, 155 Newspapers, 9 Nightmare of peace, 169 Nikita Khruschev, 139, 142 Nineteen Eighty-Four, 184 Nixon, 163 No one can win a tsunami, 111 Nobel Peace Prize, 280 Noble dead, 12 Non-Proliferation Treaty, 70 North Korea, 65, 75 North Korea's nuclear weapons, 70 Northrop Grumman, 77 Norwegian mass-murderer, 83 Not what we intended, 111 NPT, 70 NPT, threatened failure of, 71 Nuclear arms race, 52, 99 Nuclear black market, 63 Nuclear catastrophe, 105 Nuclear criminals, 123 Nuclear darkness, 64 Nuclear deterrence, flaws, 63 Nuclear disarmament, 130 Nuclear environmental catastrophe, 66, 106 Nuclear families, 179 Nuclear fusion, 73 Nuclear Mafia?, 123 Nuclear nationalism, 71, 123

Nuclear power dangers, 68 Nuclear power generation, 52, 68 Nuclear power plant accidents, 105 Nuclear proliferation, 63, 68, 70, 71, 99 Nuclear reactor, 69 Nuclear reactors, 63 Nuclear terrorism, 63, 65, 71, 123 Nuclear tests, 103 Nuclear threat greater today, 99 Nuclear war by accident, 72 Nuclear warhead stockpiles, 77 Nuclear wasteland, 125 Nuclear weapons, 52 Nuclear weapons and terrorism, 99 Nuclear weapons and the Ukraine war, 233 Nuclear winter, 66, 106, 239 Nucleon number, 69 Nuremberg Principles, 130 Nuremberg rally, 34 Oak leaves, 12, 13Obedience paramount, 93 Obscenely bloated military budgets, 194 Occultism, 23 Odd nucleon numbers, 118 Off with their heads, 195 Oil spills, 103 Older people marginalized, 179 Omnicidal nuclear weapons, 130 Organized criminals, 71 Orwell, George, 280 Ottoman Empire, 47 Over-reaction to 9/11, 169

Overgrown military establishments, 195 Overwrite ethical principles, 93 Ozone layer, 64, 67, 107, 112

Pacific ecosystems contaminated, 113 Package of broadcasts, 180 Pagan festivals, 12 Pagan tradition, 12 Pakistan, 10, 65, 75 Pakistan's nuclear weapons, 71, 99, 111, 119, 126 Palestinians, 101 Pan-Serbia, 16 Pan-Slavic ambitions, 111 Pan-Slavic movement, 16 Paranoia, 16, 99 Paris Climate Agreement, 80 Patriotism, 14 Paul Ehrlich, 67, 107 Paul Wolfowitz, 194 PBS interview, 170 Peace dividend, 169, 195 Peace in Colombia, 80 Peace without victory, 19 Pearl Harbor, 81 Peierls, Rudolf, 118 Pentagon Papers, 155, 208 Perfidious mass media, 176 Permanent arms industry, 58 Permanently uninhabitable, 112 Permian-Triassic extinction, 176 Perpetual war, 169, 170, 184 Persecution of Christians, 52 Pforzheim destroyed, 96 Physical properties, 69 Planned attack on Iran, 111 Planned lifetimes exceeded, 124 Plans for assassinating Castro, 142 Plans for blockade, 48 Plutonium, 63, 69, 70, 114 Poison gas, 18, 109 Pol Pot, 163 Political action, 11 Political chaos, 104 Political cohesion, 9 Political influence, 58 Political instability, 80 Political institutions, 10 Political unity of France, 10 Politicians tell him to kill, 94 Post-Kantians, 11 Poverty and war, 103 Poverty generated by war, 102 Poverty-generating war, 104

Poverty-related causes, 170 Power, 14 Power reactors, 70 Power struggles, 99 Power-drunk thinking, 194 Precious bodily fluids, 126 Preparation for war, 52 Prescott Bush, 50 President Truman, 99 Preventable diseases, 100, 101, 171 Priests, 13 Primary health care, 104 Primitive state, 94 Prince Max of Baden, 19 Printing, 9 Private life, 11 Private militia, 201 Privileged position, 104 Profits from war, 169 Profits of arms manufacturers, 192 Prohibitively dangerous reactors, 119 Project for a New American Century, 194 Proliferation risks, 70, 71, 113 Proliferation, nuclear, 68, 70 Propaganda, 178 Propaganda and entertainment, 180 Propagandist drama, 14 Prosecution of whistleblowers, 203 Protecting whistleblowers, 205 Protons, 69 Proud Boys display Nazi swastikas, 199 Provocative moves by the US, 193 Prussia, 10, 15 Prussian military caste, 19 Psychological conditioning, 94 Psychological effects of war, 100 Psychological techniques, 12 Pu-239, 69–71 Pu-239 generated in reactors, 118 Public education, 178 Public health, 100 Public opinion, 68, 178 Pugwash Conferences, 280

296

Pull it, 170 Putin, Vladimir, 233 Quasi-automatic reaction, 129 Quasi-religious attitude, 14 Quasi-religious fervor, 12 Quasi-religious nationalism, 240 Quasi-religious worship, 14 Radar, 62 Radiation sickness, 96, 105, 192 Radioactive cloud, 113 Radioactive contamination, 112 Radioactive fallout, 68, 99, 103 Radioactive graphite, 68 Radioactive grass, 68, 113 Radioactive leaks at Hanford, 124 Radioactive release kept secret, 124 Radioactive uranium, 68 Radioactive waste disposal, 68 Radioactive wasteland, 124 Railroads, 17 Rational thought banished, 93 Rats feeding on corpses, 96 Raytheon, 77 Real threats, 177 Rearmament, 52 Rearmament of Germany, 43 Reasons for American gun culture, 215 Red button, 126 Red Cross targeted, 96 Red Dawn, 81 Refugees, 101, 102 Refugees crossing into Poland, 233 Regional Defense Strategy, 75 Reichstag election, 1933, 52 Reichstag fire, 205 Religion, 12 Remember your humanity, 280 Renewable energy, 104, 176 Reparations, 20, 21 Reporting climate change, 178 Reprocessing, 63

Reprocessing fuel rods, 70, 118 Republican Party, 20 Republican Party irresponsible, 195 Republican voter suppression, 199 Republicanism, 11 Reserves of uranium, 70 Resource curse, 104 Resource wars, 83, 104 Resource-extracting firms, 104 Revelations of misconduct, 126 Revenge, 14 Revenge and counter-revenge, 60, 129 Reverential atmosphere, 23 Reverential atmosphere of the cult, 23 Reverential attitude, 14 Revolution in nuclear nations, 123 Revolution power, 16 Rhineland, occupation of, 20 Right-wing parties, 51 River of money, 58 Robert F. Kennedy, 142 Robock, A., 64 Role of the media, 178 Roman Catholic Church, 52 Romantic Movement, 10 Roosevelt, Franklin D., 95 Rotblat, Sir Joseph, 280 Rotterdam devastated, 96 Roughly 2 trillion spent on armaments, 189 Ruhr, occupation by France, 21 Russia, 16, 47, 63, 68, 75 Russian anti-war protesters, 233 Russian Czars, 16, 19 Sacred duty, 14 Sacred flame, 12, 13 Sacred revelation, 23 Sacred space, 13

Sadam Hussein, 73Safe drinking water, 101, 104Safety rules, 126Sandy Hook Elementary School shooting, 225Sanitary water supply, 100

Saudi Arabia, 192 Scandinavia, 247 Schlieffen Plan, 18 Schrade, Herbert, 13 Science has changed war, 239 Sea of fire, 96 Searching for enemies, 194 Second Amendment, 215 Secrecy and democracy are incompatible, 201 Sovereign states, 102 Secrecy, democracy and nuclear weapons, 205 Sovereignty, 10 Secret land purchases, 203 Secret societies, 21 Secret trade deals, 203 Security chacks, 170 Security Council, 74 Self-determination in the Crimea, 238 Self-sacrifice in war, 93 Sellers, Peter, 126 Selling wars and weapons, 176 Senate, 20 Sense of responsibility, 93 Senseless rituals, 93 September 11 attacks, 169, 195 Serbian nationalists, 16, 177 Several hundred million deaths, 60 Severe droughts, 67, 107 Share of arms sales by country, 189 Sharp-shooters, 13 Sigfried Sassoon, 109 Silverstein, Larry, 170 Simpson, Wally, 40 Sinema, Kyrsten, 196 Sinister double meaning, 118 SIPRI, 77, 189 SIPRI Yearbook, 2017, 80 Sir Joseph Rotblat, 280 Slaughter of civilians, 95 Slave laborers, 50 Slavic majorities, 12 Small arms, 74, 75 Small arms, 639 million, 75 Smith, Dan, 80 Smuts, General Jan, 20

Snowden, Edward, 201 Social Democrats, 52 Social disruption by war, 101 Solstice, 12 Somalia, 74, 75 Somme, Battle of, 18 South Africa's nuclear weapons, 70, 119 Southwest Asia, 75 Soviet atomic bomb, 99 Soviet Union, 139, 143 Soviet-style revolution, 51 Space-age science, 14 Spanish Civil War, 181, 280 Speer, Albert, 41 Spiritual influence, 58 Stable future, 99 Stalemate, 18 Stanislav Petrov, 193 Starvation, 75, 100, 101, 110 State, 11, 12, 14 State Secrets Act, 113 State-sponsored terror, 94 Steel, 16 Stone-age politics, 14 Stonehenge, 13 Stop the Steal, 195 Straits of Hormuz, 129, 177 Strategic competition, 81 Stronger bargaining power, 104 Stupidity, 18 Subnational organizations, 71, 123 Subsidized nuclear power, 114 Sudan, 74 Suffering caused by poverty, 105 Suffering caused by war, 105 Suicide by soldiers, 93 Superbombs, 99 Superpower status, 75 Supporting German Rearmament, 43 Survelience, 184 Swastika, 23

298

Sweden, 68 Symbolism, 12 Symbols of power, 178 Svria, 74 Tanks, 19, 48 Targeted individuals, 83 Technical defects, 62 Technology, 9, 10, 14, 17 Telegraph, 17 Television part of education, 179 Television underestimated, 179 Temperature inversion, 66, 107 Territorial integrity, 19 Terrorism, 75, 95 Terrorism an invented threat, 171 Terrorism risks, 113 Terrorism, nuclear, 63 Thales Group, 77 The 20 largest defense contractors, 189 The danger of a civil war, 201 The far right today, 199 The Guardian, 178 The jaws of power, 207 The True Believer, 93 The truth about 9/11, 205 Theologians, 10 Thermite, 170, 171 Thermonuclear bombs, 70 Thermonuclear reactions, 73, 99 Thermonuclear war, 142, 176, 177, 192, 280 Thermonuclear weapons, 9, 105 Third World War, 10 Thirty Years' War, 48 Threat of nuclear war, 105 Threat of war needed, 194 Threats and costs of war, 100 Thule Society, 23 Thusnelda, 14 Thyroid cancer, 68, 113 Thyssen family, 48 Thyssen, August, 48 Thyssen, Fritz, 48, 51

Thyssen-controlled bank, 51 Tipping points, 176 Tokyo firebombed, 96 Tokyo, firebombing, 60 Tom Cruse, 81 Toon, O., 64 Top Gun, 81 Torture, 185 Total destruction of Hamburg, 96 Total global supremacy, 75 Totalitarianism, 12 Trade, 9 Trade unions, 52 Trading with the enemy, 50 Traditional societies, 179 Tragically self-contradictory, 112 Training of soldiers, 93 Transportation, 9 Treaty of Versailles, 51 Trench warfare, 18, 109 Tribal instincts, 11 Tribalism, 9, 11, 94, 247 Tribes, 14 Triggered by a madman, 126 Triggered by error, 129 Triple Alliance, 47 Triple Entente, 16, 47 Trump is still a threat, 200 Trump's numerous crimes, 200 Trump, Donald, 81, 195, 227 TTAPS Study, 66, 106 Turco, R., 64 Turkish Sultan, 19 Two billion risk starvation, 68 U-235, 69, 114 U-238, 69, 70 U-boats, 48 U.S. gun homicide rate, 215 Ukraine, 68 Ukraine and the danger of nuclear war, 236 Ukraine war and nuclear weapons, 233 Ukrainian Nazis, 238

Ultimate ecological catastrophe, 192 Ultracentrifuges, 70, 71, 118 UN General Assembly, 60, 62 UN Security Council, 75 UN's Agenda 2030, 80 Unauthorized act, 63 Understanding Appeasement, 43 Unenriched uranium, 105 Unfair agreements, 104 Uniforms, 13, 17 United Kingdom, 47, 75 United Nations Charter, 102, 130 United States, 47, 63, 75, 184 United Technologies, 77 Unity Mitford and Hitler, 33, 34 Unity Mitford's attempted suicide, 34 University of Texas Tower shooting, 219 Unknowing human guinea pigs, 125 Unwarranted influence, 58 Uranium, 69 Uranium enrichment, 71 Uranium reserves, 70 Uranium-235, 105 Urinating on Afghan corpses, 169 US arms industry privatized, 189 US attempt to contain China, 193 USSR's civilian deaths, 110 Uvalde Texas school shooting, 2022, 230 Values from the mass media, 179 Vanity, 18 Vast proportions, 58 Verdun, Battle of, 18 Versailles, 10, 15 Versailles, Treaty of, 20 Vicious circle, 52 Victims of the Sandy Hook shooting, 225 Victoria Nuland's Ukraine coup, 237 Vietnam, 103 Vietnam War, 153 Violence, 14 Violent death, 101 Virginia Tech shooting, 224

Vladimir Putin, 233 Volk, 23 Voter suppression by Republicans, 199 Wagner, Richard, 23, 34 Wales, 68 War, 14, 74, 75 War against Iraq, 171 War against terror, 169 War as an economic institution, 194 War as an institution, 58 War criminals, 20 War guilt, 20, 21 War of subjugation, 12 War on Terror, 170, 195 War, unbridled, 14 Warlike traditions, 17 Wars block development, 104 Washington Naval Treaty, 47 Washington, George, 195 Wasserman, Harvey, 113 Water purification facilities, 102 Waterbourne diseases, 103 We can build the world we choose, 247 We know that war is madness, 194 We Were Soldiers, 81 Wealthy countries, 104 Weapons destabilize regions, 104 Weapons-usable materials, 70, 72 Weapons-usable plutonium, 124 Weapons-usable Pu-239, 70 Weimar Republic, 21, 22 Wellington, 14 Western Europe, 75 Western Front, 18 Wheeler, John A., 69, 118 White supremacists fear racial equality, 196 Whitman dead on observation deck, 221 Whitman's rifles and shogun, 219 Wider loyalty to humanity, 240 Widespread general war, 126 Wilfred Owen, 109 Will, 12, 14

Wilson, President Woodrow, 19, 20
Windsors and Hitler, 40
Wolfowitz Doctrine, 75, 194
Women and children, 95, 96
World arms spending, 100
World Health Organization, 100
World of Warcraft, 83
World Trade Center, 65, 123, 170, 171
World War I, 47, 49, 52, 95, 110, 112, 238
World War II, 48, 66, 95, 102, 106, 110, 169
World Wars, 10
World Wars, 10
World-destroying war, 111, 112
Worse than wasted, 104
Wounded, 18

Yemen, 192 Yokohama firebombed, 96 Yongbion Research Center, 77 YouTube, 180 Yugoslavia, 16

Zimbabwe, 75