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The SUN ~ CONFLICT ~ DYNAMITE

Shooooom!!

*"I intend to leave, after my death,
a large fund for the promotion of the Peace idea,
but I am skeptical as to it's results"*

Alfred Nobel.

Here, Dear Friends! We shall learn about explosive Solar-ness concerning the Pre-Dynamite wars and, staying at a fairly continuous level with Solar forces and Dynamite, we shall learn something of Alfred Nobel and the literal rush of the late 19th century. We shall see Nobel nailing down nitrogen and wrestling and winning but also losing with nitro glycerine. We shall see the strong impression towards peace, that Bertha von Suttner made upon Nobel. Which, in the end, made some difference, but not enough, to the insane militarisation that drives maddened disgusting greedy men towards war and conquest. We will also understand, a little, of how the rush towards invention and innovation sparked many different explosions. In Healthcare for the sick, in Sanitation engineering, in many other civilian and military developments in technical development, in the birth and development of plastics. Here, we shall look into Alfred Nobel's heart and see whether or not he really had a heart. And we shall see a relentless cranking up, a pounding, a churning out. The ending is somewhat shocking. But we are all so inured, that we barely look up! Hold on!

It will be bumpy! :-)

"BIGGER, BETTER, FASTER, MORE"

Here we are, Dear Friends, travelling faster. As fast as light. Ever exploding. Ever renewing. That is our wonderful Sun: without which, we mere, tiny beings upon this beautiful planet would simply just not be. And so, while this ball of ever exploding fire is with us, we must understand and obey. There is no way that our Star can be tamed or controlled. Should some have that very arrogant desire to do so?

Our star: Sol, is an Awesome Being of Enormous Power. Capable of utterly destroying Our World in the blink of an eye. But, it does not. It is also our benevolent being, as well as being the 'destroyer of all'. And so, as we look into our Hearts, our bodily Sun, we see that we, too, can all be benevolent beings. Our single hearts beautifully beating. Radiating and pulsating. And it could be that they could quite possibly connect with all other Hearts. If we allow them to. Now, our Hearts are not just blood pumping organs. They are working with our minds. Our conscious minds. When humans work together in a positive way then this is like lots of mini Suns becoming one big Sun. And what is the Sun? But a series of never ending explosions pulsing and radiating energy to the rest of the bodies of the Solar system. Now, when we also realise that our Hearts are our Love Vessels, then we also learn how to control the explosion, of our collective Hearts.

How?

*Deep empathy on the basis of "what is real".
This is how we ascend, Dear Friends.*

NAUGHTY NITRO GLYCERINE

For our next explosive Sun material, we look at TNT which is Tri Nitro Toluene; also known as Dynamite; and its derivatives. We are, in fact, looking at it's progenitor: Nitro Glycerine. This has played an enormous part in Our World and continues to do so in many ways. Some ways we do not see, at all. We are seeing what happens when we attempt to fix Nitrogen and attempt in tiny ways to imitate the Sun. All that exploding.

Here, Dear Friends, we turn to the late 19th century. There was the rush of invention that was happening at this time. A truly explosive time for science and the changing social organisation of people due to rapid industrialisation and the growth of new urban areas. And so, for the purposes of attempting to keep this chapter from exploding too far out, we will begin from the Year 1850. This is 170 years from our own era. Although this may seem like an awful long way, it is only five generations ago. This date, **1850**, can be said to be the true beginning of the acceleration into our modern age. We are still in this age now; looking back. Our present age is part of the continuing age of technological explosion.

Now, Our World is saturated with technology and micro-engineered machines. This is a miniaturisation of machines and processes that started much bigger. The railway, the telegraph, the screw propeller steamship, the metal ship, had all just come about just before 1850 and were being hurriedly modified and made 'more efficient'. Lots of other industrial machines and processes were being invented and discovered and perfected from this date. What was really propelling the industrial and technical growth of humans were new developments in technology. Mining and ore processing, smithing (*the name: Smith*) and smelting, in particular, made great strides in the last half of the 19th century. And the acceleration of discovery and invention gathered pace and has been accelerating ever since. Even now in 2019, all the major countries of Our World are inventing mind bending technology and or arming up like insane lunatics (*now it's rail guns, hypersonic missiles, stealth submarines, neutron warheads, gravity bombs and sonic weapons, as well as brand new generations of autonomous robots, drones and satellite laser weapons*).

Ascanio Sobrero, an Italian chemist, discovered the rather volatile and alarmingly explosive properties of Nitro Glycerine, in Turin, in 1847. He was hugely upset by it's potential consequences and warned against finding ways to increase the uses of this new explosive material. But from that rather small big bang moment, a very powerful new world was created. A very violent and destructive and chaos making world. A truly Solar world. The Toluene fixing the Nitrogen produced a liquid that became an uncontrollable explosive. Many men spent years tinkering in sheds trying to figure out HOW to control this volatile, but highly useful, substance. Many people died or were blown up or had bits of limbs blown off.

To tame and control Nitro Glycerine was Alfred Nobel's goal in life. And when he had achieved that, he moved on and achieved more. He achieved an extraordinary amount for one man with determined organisation and a hugely inquiring mind. However, as we shall see later Nobel has a great deal to answer for. As a result, not only of just this one invention, Nobel was one of the individuals who helped to usher in the era of industrial warfare that now pervades Our World. And so, Dear Friends, we shall see how tied up with fixing Nitrogen, Nobel really was. And how consequential to everyone Nobel's inventions were. And still are.

MINING AS A PRELUDE. AS A MARKET

One of the inventions that helped in this acceleration was the simple, but hugely effective square set timbering for mines and miners. Pieces could be made, ready to fit to one another. Made and produced after a systematic fashion. These would help support the ceilings of the mines. Also leaving pillars of rock as support has become a staple in most hard rock mines. These square set timbers could be used to make rigid frames for tunnels or wells. This meant that miners could go deeper and, generally speaking, with a little more certainty. At the same time, hoist equipment using steam pumps were developed. As was pumping equipment. And so this meant that men could go deeper, and find more. And, because square set framing made things a lot safer and more predictable, more discoveries were made elsewhere in further flung parts of the world. This is because many very well educated men from Europe and the Americas were travelling to far flung parts of Our World and studying the rocks and learning more about what they contained and what useful factors certain rocks contained.

At the same time rock drills became bigger and far more mechanised and mobile. Basket lifts to hoist men and

equipment were also perfected at this time. After square set timbering had been thought of, then came Dynamite. Dynamite to the mining industry was like going from impulse speed to warp factor 5. The mining industry had to learn how to be precise with Dynamite and its precursor: Black powder. Gunpowder. All these discoveries happened from around the 1860's. The Comstock Lode, a Silver mine in Nevada, is the first mine to try these square set timbering support frames. These and Gunpowder, drainage equipment and drill improvements revolutionised the mining industry. It really was a case of BIGGER, BETTER, FASTER, MORE.

EXPLODING MINING

We, too, can and do, cut material out of Our Earth to build some of the most useful and awesome structures ever seen. Such engineering feats! Tunnels that go under the sea or through mountains, roads that wind around mountains, steel supports for railways in high up places supported by incredible bridges.....so much cut out of Our Earth and fashioned as we would as if we could make anything and everything. Often brought to you courtesy of Nitro Glycerine and its derivatives. And so, this is why, in so many ways, it is a material of conflict. On the one hand it is terribly destructive. On the other, in many cases, out of that destruction comes something that we humans have put to use to help construct the bones, the infrastructure of Our World. Humans use the Solar capacity that Dynamite has for building Our World. For good or ill. The amount of finished goods that come from the use of TNT or its derivatives as primary enablers is quite staggering. Our modern fast industrial economies rely on explosives to get their raw materials out of the ground and into a processing factory ready for further manufacture. With the judicious use of both gunpowder and dynamite, we now see the literal 'explosion' of humanity, enabled by both these explosive accelerants.

CHINA AND THE VAST LANDS OF CENTRAL ASIA

1850 is a beginning because 1850 is also the first year of the Taiping Rebellion (1850 - 1864). This was part of a long civil war that China was going through, intermittently, from the 1830's right through, to when Mao Tse Tung marches through the gates of Beijing in January 1950 (*Peking, as it used to be called*), at the head of the rigidly disciplined Army of the People's Republic of China. The Red Army of China.

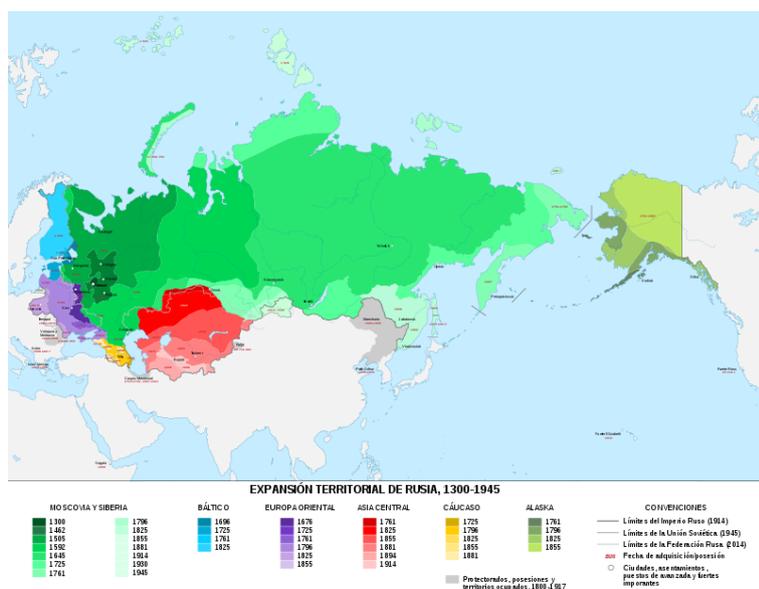
During the years 1850 -1950 China is in a general state of war somewhere in China and often, in the north of China.

In the lands to the north and west of China live many non-Chinese Turkic speakers who are also Muslim. Some are Buddhists. China has been having an on-off war with these people who also live along the old trade routes, that head west, overland across Asia. (*now there is the 'belt and road' initiative which mean Dynamiting and driving roads and railways through very politically sensitive areas where Chinese rule is tolerated but not really accepted. These areas in the northern marches of China have always been 'suppressed'*) The Chinese state in its various incarnations has been fighting border wars and the tribes in these vast areas for thousands of years. These stretch westward from Beijing in the east. They run through huge mountain ranges, high plateau, endless steppe and desert with some favourable valleys in various parts of what was considered by The Chinese, right back to Ancient China, to be 'The Silk Road'. As long as people could trade and make a living was the order of the day in cities like Urumchi, Kashgar, Turfan, Almatay, Tashkent, Samarkand.

These routes eventually lead north of Tibet over toward south central Russia and the Caspian Sea, into Europe proper. These routes through these various people's territory have been a problem for the Chinese State who have always been proponents of aggressive actions taken against the peoples of the north and west of China since the days when the Chinese State thought it ruled "All under Heaven".

Now in 2020, The Chinese government are forcing these local folk to think in a certain way. Telling them what to think, in other words. They are doing this through state apparatus, mind control and some overt physical force. But, mainly through psychological coercion. Horribly Orwellian and a massive source of resentment and potential, terrible unrest. But, to the Chinese State, it is a numbers game. The Chinese think that Trade will increase exponentially once all the road and the freight and passenger rail links are constructed. The idea is to have a train running from Beijing to Paris which glides at 400 miles per hour. It would still take a day but be a great deal quicker than current overland transport links which are still poor.

Eventually this series of highways will become the 'World highway' because there is a likelihood that both Russia and China will become close allies because both their economies benefit each other. This means that they will become the economic and military mega-power of Our World. This is happening, as this is written. This is largely because of the internal chaos that is occurring inside the USA and the EU. The Chinese and Russians are taking advantage of this chaos. Created by people inside these blocs who wish to install totalitarian governments. Then, their remit, is to create a 'one world' government. They are nearly there. When that happens, then all of humanity will be complete prisoners of the financial security data dictatorship. It will make the Earth seem like a prison planet.

...IN RUSSIA

The Russians met up with the Chinese in the late 1600's in the expanding Russian far east. While the Chinese looked west to trade, The Russians, coming out of the forested lands of Muscovy and beyond, met up with the Chinese by travelling east. Russian pioneers were out setting up towns and villages in lands much further to the East than the state of Muscovy. Many of these pioneers went with small armies of people. They cleared forests, found brine wells or Salt deposits and began Saltworks and the proceeded to build towns at points where they came across many of the north/south flowing rivers of the vast area of Siberia. Siberia is twice the size of the United States. Many of the Rivers flow north to south. So at convenient points they built towns ever spreading urban culture and cutting certain trails further and further eastwards that would one day be very long roads or become part of the very long Trans Siberian Railway. And now: the Belt and Road initiative from China.

The Tzar Ivan IV Grozny "the Terrible" (1533 -1584) commissioned the Stroganov family to open up Siberia. He commissioned the Muscovy Company in 1555 (*who became very similar to the British East India Company or the Dutch East India Company*) And they sold concessions of land for farming, ironworks, saltworks, forestry, mining, hunting to intrepid people who were brave enough to withstand the freezing temperatures that pervade those parts of Our World for much of the year. Siberia is huge! Most people survived on the Elk and the abundant game there was in these regions and through planting quick summer crops to store over the long winter months. It is why there is such a tradition of pickling and salting in Eastern Europe into Russia and the Siberian east. Just a part of the way to survive through long winters.

The early expeditions in the 16th and 17th century too, came across various tribes of Inuit who resisted but were beaten by European firearms. The early pioneer of Russian expansion is Hetman Yermak (1538? - 1585) crossing the Irtysh and the Yenesay rivers. And like the European pioneers in the Americas, the Russians fought against the stone age tools of the Natives of these parts: The Yakuts. This colonisation of the "Wild East" as opposed to the glorified and far better known spread of European colonisation of the north American 'Wild West', is, virtually, unheard of. Except in the East. The Russians came across these Turkish/Tartar tribes as they travelled east towards China. The Russian state absorbed many of these tribes that eventually became the southern marches of Imperial Russia. But it took 300 years or so from the rise out of petty principdom, of Muscovy to becoming Russia: proper. Nerchinsk right there in central Asia was the eventual settlement where the Russians and the Chinese met. They negotiated and signed a treaty there (1689) This was an attempt at trade negotiations and to fix borders. This was the first foreign treaty that the Chinese signed with any country. The Russians are the European partners that China has been most familiar with. Occasionally under communism there was rivalry, and during the late 19th and early 20th century Russia, along with all the other European powers attempted to obtain territory or concessions at China's expense.

...BACK IN CHINA

These Chinese civil wars of the 19th and 20th centuries were often fermented with the help of foreign powers and have done much to skew the thinking of the Chinese, today, towards the West and what the Western powers did to China in the 100 years before World War 2. When we look at China and the West from 1850 to 1950 we see the appalling way that the Western nations treated China, either via private business and corporate trade or through missionary or political aims. The Europeans used different Chinese factions against each other. The Europeans used Opium to weaken the Chinese on a continuous basis.

Then, in the 1920's came the formation of the Guomindang and the Communist parties of China. Both fairly diametrically opposed; at the conservative versus socialist level. The Europeans wanted Trade, but on their terms, and they were willing to tread on toes to get their terms. These civil wars were often on the northern border provinces and involved, certainly since 1700 foreign powers (*Russian, British, then later; French, Japanese, German*) stirring up the Muslim tribesmen in these northern regions, who all loathed the police state of the Ching.

The Ching were the rulers of China throughout the 18th and 19th centuries. But the Ching were also a foreign dynasty from Manchuria. Which, even, the Han Chinese do not consider as being part of the heartlands of China. Manchuria is a very large amount of territory above the Korean peninsula. Many invaders have attempted to invade China through Manchuria. The Manchurians were more tribal and clannish than the urban Chinese. When they took over in 1644 it was because they had been invited in by the commanders of the armies of the Ming, who were the rulers of China, then, to restore order. Mercenary military police. Towards the end of the rule of the Ming (1660's), China experienced a great deal of chaos and so these Ming generals and administrators invited in Manchu warriors. They were invited to establish order. They did so and liked it so much that they took over the Government and became the last imperial dynasty. The Ching.

This is an overview of the background to some of the events that lead up to the temporal borderlands of the story of Dynamite. The pre-dynamite wars from 1850 are important because they act as templates and catalysing events for later conflicts. The European scramble for concessions in China becomes an important part of World history from our randomly selected date of 1850.

THE BUILDING BLOCKS

Returning to our main subject, the exploitation of Nitro Glycerine: we also look, fleetingly, at the element Nitrogen. We neglect Nitrogen over oxygen. And while we certainly do need Oxygen to breathe, our Air mixture would look rather depleted if the Nitrogen were left out. Nitrogen constitutes nearly 79% of our Air. So we would all be in big trouble if the Nitrogen were to be somehow increased or decreased. The story of TNT or Nitro Glycerine or Dynamite and it's derivatives is the attempt by humans to 'fix Nitrogen'. Not an easy thing. A bit like trying to 'Nail down Air'. Sort of impossible. But various men in the accelerating late 19th century were attempting to do just that. To 'Nail down Nitrogen' or compounds of it. Nitrogen compounds are really useful. For instance Salt petre type fertilisers are used to 'fix Nitrogen' in the soil for plants to thrive. The exoskeletons of many insects and arachnids are made of Chitin. A nitrogen compound. The militaries of many countries are looking at how to turn Chitin into amour; as it actually incredibly tough and can withstand blows and projectiles. Any cryogenic freezing or storage of organic tissue is usually done with liquid Nitrogen because the freezing process is almost instant and because there is no loss of cellular integrity by freezing living tissue in this swift fashion.

Tri Nitro Toluene is the third hottest substance in our small pantheon of 49. (1st The Sun, 2nd Plutonium)

Nitroglycerine was obtained through a series of processes. Firstly, fuming Nitric Acid would have to be created. This was done in tanks. Then, glycerine had to be obtained. First, Tallow, which is animal fat, had to be chopped up and melted down at a low temperature. Then Lye had to be obtained. Lye is from the ashes of wood. Depending on what kinds of wood were burnt was dependent on what kind of ash was obtained. This ash would be highly Alkaline and would be readily soluble in water. It would generally be classified as Potassium or Sodium Hydroxide. The water would be 'warmed' and the ash added. The Ash, once added to the water would warm the water by itself as it would create a highly caustic solution. Once this solution was at a 95 deg F temperature, then, the tallow would also be added

and stirred in vigorously. Salt would be added. Then, once the stirring in had been completed, the mixture would be left to cool. The mixture separates and hardens. First there is a hard waxy layer. That is scraped off and that can be used as soap. Then there is a liquid layer. This has salts and impurities so this is strained through a fine strainer. What is left is Glycerine.

This glycerine in itself is really useful in so many ways to industry. Goopy, gloopy and soupy. A quietly indispensable lubricant for so much of industry. However it is also absolutely fundamental to making Nitro Glycerine.

This Glycerine now made, is infused with the fumes of Nitric Acid and Toluene. The bonds from the triple nitrogen bond with oxygen bonds and so one has the formula $C_3H_5N_3O_9$

Nitric Acid*****

Nitrous Oxide*****

NAUGHTY MEN IN SHEDS BLOWING STUFF UP

In order to understand the accelerative explosive processes that were taking place at the end of the 19th Century, we will take a look at some of Nobel's patents. The list further below, will, hopefully, speak for itself, in explaining the Sun nature, The Solar nature, of all that Nobel was trying to achieve. How suddenly explosive, accelerative and industrial, warfare and war machines came to be. Competing with William Blake's evocation of 'dark satanic mills'.

This highly inventive and innovative period of the late 19th going into the 20th century is typical of the continuing on/off arms races that have occurred between major countries since the end of the American Civil War (1865). With the list below, we see a part of what Nobel actually achieved. Nobel and his fellow inventors (*people tinkering in sheds*) enabled the acceleration of warfare in a most explosive way. Which is also the Solar Way. The entrance into the 20th century marks an explosive acceleration of activity to do with the development of warfare. And Nobel epitomises this. For Nobel, it was about solving problems.

TNT is Tri Nitro Toluene. Roughly translated as Nitrogen fixed by Toluene. Toluene is a Hydrocarbon Benzene type aromatic substance readily available from the production of Petroleum and its derivatives. It smells like a chemical solvent. And that is exactly what it does. It acts as a solvent fixative for that rather light and wayward Nitrogen. Being a Hydrocarbon, it has Hydrogen and Carbon and an Oxygen atom. Don't forget, Nitrogen and Oxygen are best buddies. They have to be! Or we humans would not be here. Nitrogen and Oxygen combined produce 99.7% of our Air mixture. The rest being many tiny amounts of trace elements. Some 'Noble' Elemental gasses: Argon, Neon Krypton, Xenon. And, compound gasses: Sulphur Dioxide, Hydrogen Sulphide, Carbon Dioxide, Methane. The gasses act for Our Air as if they are the spices or the salt and pepper that can enhance the flavour of a meal.

Fortunately, we do not have Toluene in our Air mixture or else we might be exploding all over the place. Messy! so Nature has really balanced this out for us. Our 'class M' mix. The way we all get our Air is like this: Plants breathe in Carbon Dioxide among other gasses but they use that and breathe out Oxygen. So that is handy for All the species that need nitrogen and oxygen to breathe. And so scientists in the mid 1800's were looking at Nitrogen and Nitrogen compounds as a kind of "Holy Grail".

Heat is the acceleration of temperature upwards

Heat radiates

Heat invigorates the organism

Warming, Hot. Boiling. Scorching. Burning. Fire. Exploding, Releasing

Explosive, like the Sun

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THE PRE-DYNAMITE ERA OF RESTLESS CHANGE

One can date the increase and greater development and USE OF MASS EXPLOSIVES to a strange era of warfare:

1. **The Taiping Rebellion** (1850 - 1864) in China. A civil war with foreign mercenaries (*Charles Gordon*)

2. **The Crimean War** (1853 - 1856) fought in Russia by Britain, France, Russia and the Turkish/Ottoman Empire. Imperial Russia wished to extend its territory at the expense of the Ottomans, Romanians and the Bulgarians and attacked Romania down to the mouths of the Danube river. a very strategic river which empties into the Black Sea. Romania and Bulgaria and Moldavia were all part of the slowly dying, Ottoman Turkish empire.

An interesting peculiarity of this war is the rapprochement of Britain with France after hundreds of years of war and mistrust.

3. **The American Civil War** (1861 - 1865) USA

The USA, Russia, China, France, Britain, the Ottoman Turks.

Almost seems like now. These are 'imperial' powers of one sort or another.

These were the pre-dynamite wars that were changing the world

TNT was a process that allowed liquid Nitro Glycerine, the explosive, to become more stable. This was achieved in 1867. Dynamite is NitroGlycerine stabilised in a diatomaceous Earth: Kieselghur, surrounded by a casing, which needed a detonator or a fuse to ignite it. It's discoverer Alfred Nobel, named this combination 'Dynamite' from the Greek: "Dynamis" meaning "Power"

Dynamite was proven to be a lot more powerful than gunpowder, in the force of it's explosive power, While gunpowder goes 'bang!!!!', Dynamite truly explodes with a much larger, more destructive and longer "BOOOOOM!!!!!!". :-)

Nitro Glycerine molecules are tightly packed, but are inherently unstable. Because of this volatility, there is the potential for sudden greater and longer release of gases after the initial detonation. This risk of explosion is, potentially, far greater when bumped or jarred.

There had been many troubles with Nitro Glycerine concerning transport and temperature. Many unexpected explosions occurred because of it's tremendous volatility. One bump or bang or jar and the whole lot would go up....spectacularly. Hugely destructive.

Dynamite needs a detonator. It just so happened that, before Alfred had perfected the idea of dynamite, he, first, invented a Mercury Fulminate detonator in 1865. By 1869 he had invented the electric detonator. By then although Nobel had figured out how to transport Nitro Glycerine safely by soaking it in Charcoal dust. but this was not a satisfactory solution and still required lots of work care and effort. From a business point of view, that meant costs.

Like many things, Nobel discovered Dynamite by accident. It was the practice of his day for scientists, like him, to have trays of absorbing materials below their work desks, in case of spillages. Nobel was attempting to pour a drop of Nitro Glycerine into another container when he shook and dropped the drop of Nitro Glycerine. At that very instant; Nobel realised that "I am done"; thinking that he and everything around him would be turned into dust. But, by chance, the Nitro Glycerine dropped onto a Fuller's Earth tray below, next to his feet. This Fuller's Earth is also called Kieselghur. This is the moment that Nobel realised his 'absorbing' materials. The Nitro Glycerine was soaked in Kieselghur, then that was wrapped in paper cardboard tubes and sealed. Then a small cap of gunpowder and the Mercury Fulminate fuse were added. There, Dear Friends, was a finished product of deadliness and destruction that was now, far easier to contain, to transport and to use. Suddenly, life was changed. Forever.

This Kieselghur was in fact the remains of tiny creatures called Diatoms. They are single cell organisms and under a microscope in colour they really are rather beautiful. They live in the seas and are part of the micro chain of food life of tiny creatures like plankton. The Kieselghur are the shrivelled remains of these creatures. Literally billions of them. Trillions. Like the Chalk Downs made of Calcium Carbonate that make up the composition of the North and South Downs of Sussex, Surrey and Kent in the UK are composed of the skeletons of literally trillions of Sea creatures all dying and piling on top of one another over millions of years. The chalk is these creatures and Diatoms are Kieselghur.

This accidental discovery of Dynamite was a world changing moment. Every single state and country sent military and business representatives to Nobel to persuade him to sell the rights to access the Patents to Dynamite. The prospective potential applications for Dynamite were huge. The representatives of countries' militaries sent to negotiate over the Patent were salivating at the prospects of having Dynamite and other Patents as new powerful weapons in their countries arsenals. There were representatives from at least 20 different states and national entities. The military/

commercial representatives from these countries screamed and shouted at each other to be the first to own this material of such destructive power.

The range of Dynamite manufactured is rated on the percentage of nitro-glycerine it contains by weight. For obvious reasons of safety, dynamite and gunpowder factories have to have many kinds of reinforcement and protections...sunken buildings with heavy turf roofs. Absorbing materials.

Much of the Dynamite in the USA is manufactured by E.I. duPont de Nemours who also had a monopoly on the manufacture of gunpowder since the Anglo American war of 1812 - 1814. This war was known as the '2nd war of American independence' This is the war where the United States attempted to take Canada from the British, but failed. The British sailed up the Potomac River and destroyed the White House and the Congress buildings. In effect the British destroyed Washington 2 years after the imperial Russians torched their own capital: Moscow, to prevent it from falling into the hands of the French under Napoleon. Then the British also laid siege to New Orleans which was stoutly defended by a future US president (*then, general*) Andrew Jackson (*President 1829 - 1837*).

And so, we see, that within a two year period, the, later, Cold War goal of both sides is actually already achieved. In historical terms. If Washington DC and Moscow were to be destroyed in a nuclear war it would not be the first time that they have both been destroyed.

The Cold War threatened from 1946 until 1990 when the Soviet Union and it's satellites, known as the Warsaw Pact: (*Mongolia, Romania, Bulgaria, Czechoslovakia, East Germany, Poland, Hungary, Cuba*) collapsed, politically. A few years later the Balkan countries The new states that came out of the EU provoked civil war. From the former Yugoslavia, Croatia, Macedonia, Kosovo, Serbia, Bosnia Herzegovina, Slovenia and sometime, Albania. were at war (*In Europe!*) in the 1990's. The USA and the ex Soviet Union (*now mostly Russia*) had been at nuclear loggerheads with one another, publicly, using the threat of nuclear weapons to threaten destruction. Their avowed aims, should war have broken out, were also to destroy Washington DC and Moscow. As well as all of each other's nuclear installations, missile silos, power generation, any other strategic or primary target including airbases and major cities.

It is very likely that all the Cold War was actually a massive bluff. For, recently released documents now suggest that the Soviets were almost entirely funded by either European or US banks. These banks actually negotiated and cajoled the government of the Soviet Union to do their bidding and in the process were able to control and suppress the development of that part of the World until it was time to fund the Chinese communists. Which 'The West' did; increasingly, from the 1970's. In return for this manipulation, the Soviets regularly fed the West with grain grown in the Ukraine, while they continued to suppress their populations. Ukraine gains it's independence from the Soviet Union in 1990.

The explosive temperature of Nitro Glycerine is approximately 6280 deg F and it explodes with the force of 1lb of dynamite into 157 cu ft of gas on release.

The chemical composition of nitro glycerine from which dynamite is made is $C_3H_5(NO_3)_3$

Nitro Glycerine was discovered by Ascanio Sobrero in Turin in 1847

Dynamite was patented in London and Stockholm and manufactured by Alfred Nobel (1833 - 1896),

Who also invented the blasting cap in 1865.

In 1867 Nobel patented 'Dynamite' and in 1873 he patented 'Gelignite'.

THE FAMILY NOBEL

Nobel's Father: Immanuel, invented plywood. Another massively useful invention in so many ways. He moved his family from Stockholm to St Petersburg, Russia, because of business opportunities there. Immanuel established a factory and a foundry and was responsible for supplying the Russian government with underwater mines for the Crimean war. (1853 - 1856). Emmanuel's businesses failed when the wars stopped. And so he had to think again. The problem of businesses like these, (*manufacture*) are that a great deal of money has to be invested in plant and machinery. The problem then is, if there is no more use for this machinery, then it costs money to maintain while nothing is being made. This was the problem for many kinds of manufacture during this explosive accelerating century. A big investment, a sudden downturn, a cash shortage, no income. Things get very difficult. There were huge turnovers of Businesses during these years. This is a perennial problem that has occurred throughout the era of industrialisation. Witness, Dear Friends, in times past, rotting factories with useless rusting machinery that has just been left behind when the investment has dried up. (*Although, today, the culture is to 'recycle' as much of everything as possible, which can sometimes be spectacularly counter productive*)

Alfred Nobel studied chemistry and explosives in France and in the USA and patented a method of preparing gunpowder. He met Ascanio Sobrero in Paris while he was still learning the advanced studies of his crafts. It is curious

that both these men were 'men of peace' but they had discovered and exploited the most destructive substances that humans had ever discovered. Until the upgrade to Atomic weapon status. Which brings an altogether greater dimension to the affairs of humans in war and politics.

(We discuss this in the chapter Saturn - Conflict - Plutonium. For that chapter, one must, truly, have a strong stomach, Dear Friends, to bear witness to what the Elites are doing to Our World. This beautiful Planet! Our loved ones) :-)

During his life, Nobel patented over 350 different items or processes. Many to do with mining, drilling, casting and chemical engineering and, of course, warfare. Endless tinkering and improvements to all kinds of warfare mechanisms were invented and perfected by Nobel. One could say that Nobel and his other inventive contemporaries were a literal accelerant to the increasing pace of human history. It is during the last half of the 19th century that we see a massive speeding up of the understanding and discovery of technology.

Nobel was born in Sweden but his business was in Sweden, Russia, the USA, Britain, Europe. Later, he lived in Paris, and died San Marino in Italy. He travelled extensively throughout his life. He spoke 5 languages fluently, which meant he was able to conduct business in Swedish, Russian, English, French and German. Later, while living in Italy he picked up Italian for good measure.

Alfred had brothers: Robert, Ludwig and Emile and while Alfred was busy in Sweden and various other parts of Europe and the US, his brothers, Robert and Ludwig, were exploiting the oil resources down at Baku on the Caspian Sea. Theirs was part of the first real exploitation of oil in Our World (since 1846. see Saturn ~ Food ~ Petroleum). At various times Alfred was one of the partners that put money into the Nobel Oil business (called 'Branobel').

Throughout his life, Alfred and his brothers frequently travelled to and from Sweden. Alfred spent much of his 20's and 30's travelling around. As a young man, Nobel worked in the USA on the creation of ironclad warships before the American Civil war. One being the 'USS Monitor'. Nobel spent some time working with the inventor of the screw propeller: John Ericsson (*Ericsson was a fellow Swede who had emigrated to America*)

THE TRANSFORMATION OF INDUSTRY BECAUSE OF DYNAMITE MANUFACTURE.

Eventually, because explosives had to be handled carefully, new processes came about where Dynamite manufacturers also became manufacturers of 'fine' chemicals. i.e. pure chemicals, manufactured to high standards and graded according to purity and quality. The early manufacturers of Dynamite and other explosives also diversified into non-military areas.

Here are a few processes that were speeded up because of the invention and manipulation of Nitro Glycerine type materials.

1. The production of industrial diamonds. This came about by using the force of a controlled explosive to turn Graphite into Diamond. Heat and pressure.
2. Steel hardening. Explosives were used to compress steel for such items as railway lines.
3. Explosives are used to push liquid metals into moulds.
4. Explosive techniques are used in some aspects of welding, plate joints, or riveting. Small explosive charges are packed into nail or rivet guns.
5. As mentioned earlier, the gloopy substance: glycerine, had many uses. One of the uses came as part of the development for manufacturing equipment. Machines were invented to turn objects 360 degrees in any direction. This allowed for the equal covering of parts or machines or manufactured objects by gloopy soupy plastics or other Petroleum based materials that were being turned into consumer and manufacturing items.
6. Injection moulds for plastics. In the early years of the 20th century various processes using Nitrocellulose, which was also part of Nitro glycerine manufacture, became what is now referred to as the plastics industry. Although many plastics are made from Petrochemicals, the way many of these plastics came about was also because of explosive injection techniques. And from the manufacture and uses of Glycerine type liquids. It meant that complex moulded objects could be made using small amounts of explosive to push the liquid material into all corners of the mould. Nobel's corporate board opened the first plastics factory in Germany in 1905

These and many, now, ubiquitous manufacturing techniques, came out of the manufacturing processes that Dynamite had to use, to get made. We could even say, that, out of Dynamite comes the moulded Plastics industry and much of what surrounds us today in homes, offices and work places. A literal explosion of manufactured products. That we must buy, to keep the economy going for the rich industrialists who make all this stuff. That we often end up throwing away.

The problems that face those who use explosives for mining, are always to do with Time Delay explosives. And, to that end, ways are always being looked into as to how fuses can be accurately delayed and ultimately controlled. The whole idea is that humans want mini suns here on Earth; but in a controlled way.

At the beginning of a new nation. The post birth action is to set up mining and manufacturing industries to supply basic products and raw materials for basic products that can also be sold on World markets. A nation must become a trading entity. Certainly in this world. Stagnation is not allowed. A peaceful non-technical existence is not permitted. Dynamite and technologies that have sprung from Dynamite, will not let people rest. Hence the 'explosion' upon 'explosion' of industrial and technical development that we see, evidently, before us, today.

WHAT ALFRED DID WITH HIS BUSINESSES

When Alfred Nobel died in 1896 his companies had been turned into 2 holding companies (1887). Because of the uses and manufacture of Nitrocellulose in the manufacture of Dynamite, the companies that made Dynamite also expanded into making products that could be turned into moulded plastics, paints etc. And so, out of Nobel's companies came his: TRUSTS

The "English" Trust became I.C.I. which is Imperial Chemicals Industries which was broken up at the end of the 20th century into various industrial specialist corporations. One manufacturing drugs and medicines, the other manufacturing paints, coverings, plastics, injection moulds etc.

The "Latin" Trust, was broken up at the advent of World War 1 and separated into national companies. These stayed within National boundaries and their loyalties stayed with their respective nations. (*in theory*) We can say, from an explosive point of view, that, the manufacture and use of explosive products and techniques has increased, exponentially, since Nobel's accident with Nitro Glycerine. Super Solar.

On midsummer's day, June 21st in 1865 (*a most Solar day, being the summer solstice*) Nobel founded Dymamit Nobel A.G. at Geesthacht, near Hamburg Germany. Hamburg, at the time, was known as a Free city, and had not yet joined with the rest of Germany to become Germany. This only happened in 1871 when Germany was officially unified. In France! (*you cannot make this up*)

In 1864 Emile Nobel was killed in an explosion at Nobel's factory in Heleneborg. After, Nobel set up a new factory in Vinterviken, Stockholm. In 1865, after having found some German business partners, Nobel launched Alfred Nobel and company. This factory made 'Blasting oil' which was a combination of Nitroglycerine and Gunpowder. Blasting oil was very dangerous to handle. There were accidents at the Kummel factory in 1866 and 1870 where most of the factory was destroyed.

In 1866 the Alfred Nobel company shipped off three unmarked crates of Blasting oil to San Francisco. This Blasting oil was set to blast the the rock for the tunnel running through the Sierra Nevada mountains for the Central Pacific Railroad. Many Chinese labourers were working on the California side of the mountains digging the tunnel by hand. Very tough work. The blasting oil was intended for the workers on the eastern side of the Tunnel to eventually connect up with the Chinese working from the west. This oil was intended to cut the furrow through the mountains to create the first Transcontinental Railway across North America. At the Post Office in San Francisco one of the crates was badly handled and there was an explosion, which killed 15 people. The State of California government completely banned this nitro glycerine product from then on. This became an urgent business matter for Nobel, who was still desperate to find a way to stabilise Nitro Glycerine. Because having one's products banned, as one knows, is bad for business.

1865 Alfred Nobel and Co founded in Krummel, near Hamburg.
 1866 The United States Blasting Oil company founded in the USA
 1867 Nobel receives the patent for Dynamite.
 1871 The British Dynamite company is founded at Ardeer, Scotland.
 1876 Nobel receives Patents for Gelnite
 1876 Society Generale pour la Fabrication de la Dynamite founded in Paris.
 1876 Alfred Nobel and Co changes it's name to Dynamit-Aktien-Gesellschaft,

these days commonly known as D.A.G.

1877 The British Dynamite company is renamed, Nobel's Explosive Company.

1880 Dynamite Nobel is founded by merging Italian and Swiss companies.

1886 Dynamite Nobel Trust Company form by merging D.A.G. and Nobel's Explosive Company in the U.K.

The mines of the Rhur were the main buyers for Dynamite and so Nobel decided to buy the Schlegel factory in Manfort and built a new factory there in 1874.

From 1876 the D.A.G. company became a defence equipment as well as powder, explosives and ammunition manufacturer.

In 1880 D.A.G. and Nobel's explosive company became the biggest manufacturer of arms and equipment for the Reich.

In 1884 all German gunpowder and explosives manufacturers agreed to form a cartel and to standardise operations.

They also agreed not to compete with one another. This cartel was led by Dynamit Nobel for 5 years.

In 1886 the German cartel approached the English Cartel and they formed a Combine. (*An Anglo-German cartel*)

Until World War 1, Dynamit Nobel grew by purchasing other competition. Similarly to some of the ways that Rockefeller also bought out his competition.

1905 The Nobel Corporation established a factory solely for the purpose of manufacturing Plastics from Celluloid. This Celluloid was a by product of Cellulose that came from Nitrocellulose. Part of the process for the manufacture of Dynamite. So it was put to use. And the Plastic Age could be said to have been born, then.

Nitroglycerine made Nobel sick. Because, as a researcher and a practical scientist, he took part in working on all new formulae and methods in laboratories where many chemicals were used and stored, for experimental and practical purposes. Much later in his life, Nobel also took Nitroglycerine as a prescribed medicine, as a treatment for his various sicknesses. Nobel suffered aneurysms and horrible bursting headaches most probably because of the nature of his work. However Nobel had always suffered from sickness as a child, well into adulthood. Various maladies never left him. But he worked through them. As if driven by some propelling force. Various Nitro Glycerine preparations are used in western medicine.

EXPLOSIVE MEDS.

Nitro Glycerine, as a substance, is used in Western medicine for Heart conditions that have potential aneurysm involved. Nobel was prescribed it by his doctors. Nitro Glycerine killed Nobel, inner and outer. He took it as a medicine. He made his fortune with it. He worked with Nitroglycerine and many other chemical substances that were toxic. And in the end he had a stroke and died. Strokes are common to the pathology of Nitroglycerine poisoning.

Glycerol Trinitrate is a medication used for heart failure, high blood pressure, chest pains or for the effects of Cocaine upon the Heart. The side effects of Glycerol Trinitrate include: nausea, fast heart rate, headaches, weakness, dizziness, vomiting, flushing, rashes.

Nitrostat is also a Nitro Glycerine based compound and is used in western medicine as a vasodilator and is used in cases of Chest pain when part of the Heart does not get enough blood. Nitrostat is supposed to relax the smooth muscle and blood vessels and increase the amount of blood and oxygen that reaches the Heart.

Nitro glycerine also made Nobel's fortune. Nitro Glycerine is made in part by the rendering of Nitric Acid so it is fit to absorb the Toluene. Once this process had been figured out, then, the word got out. Huge demand poured in for products made with varying formulae of dynamite. Nobel built factories all over Europe and established businesses and partnerships to manufacture many of the products that he invented. The payments for licences on his patents enabled him to become one of Our World's richest men by 1885.

On an entirely separate thread, Alfred's two other surviving bothers, Robert and Ludwig also managed to become two more of Our World's richest men by exploiting the Oil in the Caspian Sea off Baku. Now in Azerbaijan but formerly part of Imperial Russia. By 1900 The Baku region was supplying half of all oil on Our World.

Nitro Glycerine also killed Nobel. Nobel's pathology is a classic example of the sickness phenomena called 'maintaining causes'. While Nobel was working with these toxic substances he was maintaining the causes of his already poor health. Nitro Glycerine gives problems to the heart, circulation, The head and eyes. It produces explosive headaches, Strokes, Clots, DVT. Nobel suffered all these in various ways in various forms at different times of his life. Because of the conditions of his work and the materials of his work. (*i.e. worse for chemicals*). Nitro Glycerine poisonings cause arterial and venous problems.

TNT has accelerated the method and use of war to promote conflicts. A literal explosion in the amount of warfare

conducted and in the way it was conducted.

Stabilised now, often in a kind of inert petroleum based Silicone type putty, Explosives are the basis of all warfare They have allowed warfare to be fought on an altogether more industrial basis

200 years ago (*during the Napoleonic wars*) it would have been difficult to destroy an entire country. Now it is easy. (*witness the recent destruction of Syria and Libya*)

Used in mining, on an expedient level, it is easier to blow up the mineral-rich hillside, rather than to dig it. Because of this technology of explosives and the sheer amount manufactured and used, it means that the country with the biggest and most bombs, wins. Currently, there are technological arms races happening between various blocs, alliances and rivalries. Since the 1970's there have been shifting rivalries between the USA, China and Russia. Also between India and Pakistan and also other regional powers. Japan, Saudi Arabia, the EU under German Domination, The UK with it's more American centric elites but it's more European orientated socialist intelligentsia. This is similar to the split in Mexico during the Mexican revolutionary war (1910 - 1920). While governments use nationalistic rivalries today. The real seething discontent is between the landed elites and those who do not own land. And more complicatedly the landed elites make war against the populations they exploit. To keep them from unifying in a meaningful way. Constant social explosions to keep one off one's balance and away from one's focus.

During the American Civil war (1861 - 1865.), one of our pre-dynamite wars, we see that, the South had the military advantage, early in the war, through better tactics. The Head of the West Point Military Training Academy, in the Hudson River Valley, in New York State, in the North: General Robert E. Lee, decided reluctantly, to command the Southern Armies as he objected to the legislation that Lincoln was trying to impose upon the Confederate slave owning states. Forcing them to stay in the Union, while they wanted to leave the Union.

By the middle of the war, the North had started to produce arms and equipment on a much more productive, industrial basis, driven in part by the genuine fervour of the people of the north to abolish the institution of slavery. It appears that less than 3% of Southern Americans owned slaves

The North with it's more organised financial and industrial base, won the war by increasing it's ability to manufacture more weapons and explosives and to use them, along with terror tactics and scorched earth policies carried out by the likes of Sherman and Grant. We must remember, terror is a weapon. Freely used during war.

Just after the American Civil war, Nobel's invention comes along almost at the moment when Britain, Europe and later Japan and the USA will be on never ending continuous arms races, with few pauses in between, to count the pennies, during recessions, when they realise that they have been massively profligate. Certain events propel the decades since the invention of Dynamite.

JAPAN

Firstly, Japan decides to cease being a non industrial, virtually medieval, country who had closed itself off to the outside world since 1614. Forced contact had been established by the American: Perry in 1854. But the Japanese were still reluctant to change their ways. In 1868, a unanimous decision was made with the ascension of a new emperor: Matsuhito. His reign ushers in what is called the Meiji Era. And this event in 1868 precipitated the ruling elites of Japan to modernise after the western model of industrialisation. With the attitude of the Japanese, generally, being frugal, economical, disciplined and willing to learn, the Japanese became a fully industrialised society by 1900.

During the 1870's there was a backlash from the more conservative Samurai class of warriors; whose way of life, although exemplary, was just blown away by modern armaments and the forcing of railways through the beauty of the countryside that tied the Samurai ideal to the ideal and ideas of Land. Their resistance to modernisation was crushed by Japanese industrialists with newly trained modern armies (*Trained by Prussians, French, Americans, British*). The old ways blown away. Absorbed and expanded by business moghuls who spearheaded large family trusts: Mitsui, Sumitomo, Yasuda and control of the Army and Navy by powerful clans: Choshu and Satsuma who's rivalries often spilled over into fights brawls riots intimidation of political opponents to particular policies of full industrialisation after the Western Model (*Full westernisation did not take place until the American occupation of Japan 1945 - 1952*) The Japanese even took some Chinese territory by beating them in 1894 and then in 1904/5 was the Japanese war against Russia. Railways and modern armaments had been introduced. This turned Japan from a virtually medieval country in 1865 to an industrial power house by 1900. An extraordinary transformation. By 1902 the Japanese had Our World's 3rd largest Navy. All metal battleships destroyers and corvees. Built for them in Britain by shipbuilders with strong backs, at the yards and dry-docks of Tyneside, the Clyde and Belfast.

ITALY

Secondly, Italy. Or rather, the separate states of Italy that had been fighting each other since 1848.

1848 was a year for revolutions all over Europe. Almost every country in Europe had some kind of political and social upheaval. Except Britain and Russia. Various 'nationalists' saw the advantage of a unified Italy but were resisted locally because of the many cartels, syndicates and criminal organisations that were quite happy with the status quo. The Italians have fierce loyalty to their localities and the people in them. Many areas often specialised. There were guilds. Italy had about 15 different states in 1850. There were added problems. Italy was quite split in many ways. Firstly the northern part of Italy was considered to be more industrial and more prosperous. The attitude of the north Italians differed markedly from their more relaxed cousins in the south. South of Rome. Secondly there were many Italian irredenta movements agitating for the absorption of Venice and further territory down the Dalmatian coast and further north into what was Austrian territory. Many in the north despised those living in the south. And so Italy, like Britain, has it's own North South divide. There were various futile attempts at unification but the general political will was not there until the late 1860's (the time that Nobel discovers Dynamite) Italy finally unified in 1870. It too, grew a quick, more cohesive industrial base by 1900. Although because of very difficult economic and social conditions, one in every 4 Italians lived abroad by 1900.

GERMANY

And 3. Germany too, as we know it, has only been a nation since 1871. Germany grew at a prodigious rate, in technology, in civic experiment, in financial and economic wealth. By 1900 Germany was really giving the British Empire a run for their money at all levels. We look at the problems of Germany in the chapters on Saturn - Metal - Lead and Mars - Herb - Nettle

These countries as well as the USA, Britain, Russia, France (*except Italy, which will attempt to create a mediterranean African empire*) will spend from 1840 to 1950 years trying to take China by force or by Trade. We look at China and it's relations with the West in the chapter on The Moon ~ Conflict ~ Opium

Although also explored in Mars ~ Metal ~ Iron and Mars ~ Conflict ~ Gunpowder, we see that Dynamite is one of the materials that has so accelerated warfare to what the Earth is now incapable of containing. Certainly for most of the last 170 years (*since 1850*) the major powers of the northern World have been on an on off arms race. Stabilised explosives are at the heart of any of the great arsenal, past and present.

Since the invention of Dynamite and the improvements in gunpowder and gun manufacture, more and bloodier wars have occurred than at any time in human history. Lots of wars. And the rapidity and quantity of material that has been cut out of Our Earth and processed, has also been done at a much faster, more industrial way. In this way, an explosion of acceleration has occurred in human history. By acceleration, it is meant that we can now destroy ourselves and everything Our World, partly because of this invention of Dynamite. Dynamite type technologies are part of the sophisticated technology of Nuclear weapons and many other extraordinarily deadly and devious weapons.

THE CURIOUS MEETING OF OPPOSITES : EXPLODING PEACENIK

In 1876 Alfred Nobel briefly employed a woman named Bertha von Suttner as his personal secretary. Nobel took a liking to her but she was betrothed to another fellow, an Austrian Army officer: Arthur Gundaccar and left Nobel's employ to marry him. von Suttner and Nobel continued to correspond with one another until Nobel's death in 1896.

von Suttner reasoned that war was a terrible and pointless thing (*It is!*) and that, the attitude of the militaristic societies of Austria Hungary and Prussian Germany had disgusted her. She was one of these women who romantically sent their sons or husbands or brothers or lovers off to war but realised the incredible hurts and losses perpetrated by war. The losses of brothers and friends influenced her away from the love of war and the militaristic tendencies that were gripping central Europe during the middle to later 1860's. Prussia was pitted against other German speaking states for the domination of Germany. Eventually, Prussia succeeded in uniting the whole of Germany in 1871. But not until after considerable bloodshed. And most unusually done! Austria, Prussia and various other German speaking states, fought big battles some with the new technology of Dynamite.

Thereafter the rest of Germany came under Prussian military and political domination. von Suttner was appalled by the attitude of the military and their obsession with ever deadlier weapons and ideas of violent conquest. She mistakenly felt, as did Nobel, that if All were to have these new and horribly deadly weapons of dynamite and ballesite and gelignite which could be packed into bombs and mines and projectiles of all sorts, then, no one would want to fight a

war with such deadly weapons and that peace would prevail. A hugely naive belief. Wanting always to see the best in human nature. Always a problem when a well meaning person also makes one of Our World's most destructive materials. It is the explosive battle, inner and outer we humans have with ourselves and each other. It does really seem that a large part of the nature of human beings can really be said to be 'explosive'

We could now say that von Suttner was one of the first conscious 'Peaceniks'. A proper virtually ignored part of human society is to want peace and to want to avoid wars and military incursions of all kinds. Suttner's ideas and correspondence influenced Nobel. As the 19th century gave way to the 20th von Suttner attempted to highlight the causes of Peace in a highly increasingly militarised world. As the 19th century progressed so did an arms race. The arms race from 1890 became one between Germany and Britain. The unification of Germany out of the victory of the Franco Prussian war ending in 1871 acted as an explosive accelerator to Germany's industrial and political muscle. Despite not having an empire and yet still calling itself, the German Empire. Germany's economic growth caught up with Britain by 1900 and was outpacing the British in some fields. Greatly alarming the British. Especially those Englishmen and others, who were associated with Cecil Rhodes.

von Suttner could be considered a "progressive" in the modern, politicised, sense of the word. Although, undoubtedly, not radical at all, according to some of the more of today's somewhat unhinged radicals. Who seem to be letting go of reality. She campaigned tirelessly for the causes of Peace and against rampant militarism. She published a work of awakened consciousness: "Inventory of the Soul" in 1883. She was part of a much wider, but politically weak, Peace movement. She was also a sexual progressive. An early campaigner for women's rights and for the rights of children to be as they were and not to be disciplined. She had an adverse reaction to the rather spartan military style upbringing, people of her stature in Austria Hungary had to conform to. Austro - Hungarian society was very stratified and regimented toward the The crown (*the Dual Monarchy from 1867*), the military and the landed gentry. She was minor Bohemian (*Czech*) gentry with few connections. The currents that were pulling the Austro Hungarian empire apart were cultural and political. The Dual Monarchy was attempting to rule over a huge variety of culturally different people who all wanted different things. Entrenched monarchy simply cannot cope with the demands for radical change from it's own people. And so one gets fragmentation and division. Usually along linguistic lines. Then on racial or bloodlines. A very primitive animal phenomenon.

In 1889 von Suttner published: "lay down your arms". This propelled her to a far wider audience. This book was published in 12 languages with 37 print editions. Von Suttner was a definite influence on Nobel and was certainly instrumental in what Nobel did with his fortune, when he died: Childless. Suttner's influence.....and the fact that Alfred Nobel had read his own obituary 8 years early was certainly instrumental in making Nobel decide to award his vast fortune to a 'Trust'. This trust would activate the committees for the Nobel Prizes who's members would award the Prizes every year to worthy recipients, who advanced humankind's intellectual and cultural integrity. Bertha von Suttner was awarded the Nobel Peace prize in 1905. She died in June 1914. A few weeks before the onset of World War I, in Berlin. The super militaristic epicentre of World War One.

The Peace movements of the World do not come to any great prominence until the new "Cold War" arms race of the 1950's and 60's when the United States and the Soviet Union were attempting to out-missile one another in nuclear missiles and bombers. As people began to get educated as to the consequences of nuclear weapons, atomic technology and what radiation did and was capable of doing, many peace movements independently sprang up as a reaction, again, to rampant militarism.

In this case, the creep of the United States military presence in Britain and occupied west Germany and the manufacture of Nuclear weapons at The Aldermarston research facility right in the heart of England. Like a cancer. And so in the late 1950's into the 1960's there were marches and sit ins and demonstrations and speak-ins and discussions all focussing around the issues of peace and disarmament. This was during a time when the opposing sides, Nato and the Warsaw Pact were arming to the teeth, capable of destroying all life on Our World, many times over. Then as American involvement in IndoChina began to become apparent, more people rose up to protest against the wars of their times during the late 1960's and into the 1970's.

Part of what occurred during the advent of these peace movements was a flowering of culture. All kinds of culture. And the culture of inquiry in the 1960's and 70's was quite possibly at it's peak. However, many have pointed out, that it is because The West's military industrial complex was so successful, it created a huge middle class in the United States; who, through liberal university education, enabled their children to criticise all the wars that the USA and the CIA were involved in. Now our culture of inquiry is increasingly dependent on the permission of others who may get offended by people's free speech. Now. And so, we humans have not really progressed. Not yet. We do not need to 'go back' but we do need to be free. No one needs to nail humans down. Except other naughty humans. We too, need to explode outward, in some creative, upward way, in order to be whole. It really is our nature, on so many levels. Our general explosiveness. It is our outward vitality. Also a hugely Solar thing.

In recent years the official Peace movements of the world have either been neutered or corralled into controlled opposition. For many decades, the left of the political spectrum have "owned" the Peace movement. The dominant culture was said to be a conservative business culture and the counter culture was said to be the progressive left. But in recent years the progressive left in the form of cultural marxists who practice political correctness, are now the dominant culture. And so the counter culture, oddly, is now with the liberal centre and the harder right wing. The only real protestors for peace are usually individuals who are simply outraged by the endless pointless wars waged by America or it's allies in NATO.

So yes! There is still war. Masses of it. Nothing has changed. Many peoples' ability to make a difference towards the causes of peace are totally subsumed by clever legislation making it so that Peace protestors are now considered 'enemies of the state'. A very evil state to be in and surely several steps backwards for a supposedly advanced civilisation and truly indicative how how truly evil government and corporations have become? Evil by default. Evil and cruel by increment.

OTHER SIMULTANEOUS EXPLOSIONS

Since that first bang of dynamite at Merstham quarry in Surrey, England, there been an explosion of improvement in medical care and surgical techniques. These, along with clean water and sewage, with the modernisation and expansion of cities (*Bazelgette in London, Baron Haussmann in Paris during the 1860's to 1880's, for example*) water treatment and waste disposal have done more to improve human health around the planet than any other revolution. This in turn has allowed people to tinker and invent. Now, from the 1850's onwards ordinary folk began to have more of a say in their affairs. Only tiny amounts at a time. But ever increasing. The explosion of social awareness and social consciousness begins at this time. Voltaire being a most worthy progenitor. And the ideas of the French Revolution totally shaking the whole establishment. They reverberate today. Especially today. (*The monuments to the Crimean war dead were erected by money from ordinary people in towns and cities across the UK. This was the first time, the People of the UK, had gotten involved in commemorating the war dead, at the more common social level. Societies sprang up all over Britain to generate funds for the making of monuments and the naming of new streets of houses built for soldiers returning from that war many streets all over Britain have Crimean War place names, as do the names of public houses. There was genuine grief and a social shock wave generated by the deaths of so many British soldiers, while the elites were exploiting the hell out of the empire, the general British population of young men from all over Britain and Ireland were having these young men culled for them in the many wars that the empire was fighting to suppress the locals and almost everyone else. All because of 'trade' or the Imperial ambitions of the British Elites or any of the other European elites*)

The fractious but seemingly coordinated billionaire owned corporate media of the United States is particularly Robespierre-like at this time with the increasing crazy behaviour of the extremists of our societies trying literally to tell us that 'black is white' which seems laughable. However, if we have someone saying this to us a hundred times a day, for 35 years, then, we may just 'think' that 'black is white'. This is *Why* this volume has been written. The interesting mission creep of politically correct culture is having some very destructive and explosive consequences which are being played out right now. This volume is an attempt to correct this imbalance. Right now our cultures are sacrificing practicality for ideology. That is very dangerous at this time.

We need to clean up before we can become ideological. Ideology is born out of a disconnection to the nature of Our Earth. If we just work 'with' nature then we will not only all survive, we humans will ascend. Which is what we need to do if humans are to have the remotest chance of being fully in contact with Other Beings. We need to dispense with our tech and get back to nature and think of what nature does to maintain processes and work 'with' nature. Right now as a collective, Mankind is working with idiots who are destroying the natural world right before our eyes. This will just not do. We have a chance for something greater than the 'second renaissance' however this 'renaissance' is not the hi tech future we are promised....always....manana!

Our renaissance, such as it could be, is one where we all learn to be animal whisperers and work with nature. The key to our future as an empathetic species is to totally tune into the rest of nature. By having some kind of Arboreal industrial culture that is not industrial. More 'market garden' in nature. Working with Nature. Planting and living by TREES. Not applying our rules 'to' nature but running 'with' Nature. And that means really tuning in in a totally non-delusional way. And we need to be taught. The true language of our Ancestors who live and lived with nature is that of just running along with it. Not *against*, like we do now. It really is that simple. And so, as humans, our conflict is not only externally explosive in such places as Yemen or Ukraine, or Syria, or Iraq or Afghanistan but, internally so. We often are in deep conflict with ourselves. This inner conflict often spills out in our relationships with others. Then these conflicts are reinforced through legal means and then justified to the public and then there is war. We want and want and want but often don't know what we want especially when we get it.

THE EXPLOSION OF SANITATION INFRASTRUCTURE IN TOWNS AND CITIES IN EUROPE AND NORTH AMERICA.

Because of the medical monopoly practiced by the corporate western medical institutions, who are, seemingly, all pervasive, this monopoly would have you believe that, what they call preventative medicine, such immunisation by vaccine, has prevented disease. This is simply not the case. In fact, we will, eventually, discover that current immunisation programmes are causing an enormous amount of unnecessary bad health in literally hundreds of millions of people. Disordering their subtle bodily systems and processes. An explosion of Chronic Disease. This is a premeditated genocide. Perpetrated by the kinds of Corporations that came out of the creation of substances like Dynamite. We could say that we are in the middle of 'an explosion of toxicity' right now!

Household plumbing and drains that carry household waste that flows into the sewage system which is treated and separated, is *why* we have far less acute diseases in places where this infrastructure has been laid. Just under the street, household drains have, most likely taken away many diseases that like to breed in filthy water. All that muck gets treated at sewage plants and water treatment facilities of which are now local to most towns and cities Since these were many of the diseases of old they have not really reoccurred in anything like the same ferocity that we had during the middle ages through to the late 19th century. We do not see cholera, typhoid, scarlett fever, simply because our water is treated with bromines that kill all major germs. In many cities there were slums, these were cleared and new houses with proper sanitation were put up. These bromines can take quite a toll on the Thyroid Gland whose major manufacture is naturally occurring thyroid hormones. Many of the Bromines that we have introduced into our lives (*think Chlorinated swimming pools, Chloramines, fluoridated water, bleaches, chemicals in detergents and washing powders*) affect our thyroid glands in a very negative way.

THE EXPLOSION OF SUPPRESSION THROUGH BROMINES

In the USA "Fluoride" too, has been added to water for many decades. However, this "Fluoride" is not Calcium Fluoride. The kind we need for the bones and teeth which dentists, orthopaedic surgeons and oral surgeons endorse, but Hydro-fluoro-silicic- Acid. If dentists really knew where the origin of their fluoride treatments and recommendations come from, would they be so quick to recommend them?

This HFSA is either a waste product from the heavy water manufacture for Nuclear materials at nuclear reprocessing or fast breeder plants OR a by product of the production of fertiliser from petroleum based fertiliser manufacture. The cumulative effects of Hydro-fluoro-silicic Acid are: Apathy. A lowering of IQ and uncaring behaviour...this leads to a lack of empathy...the effects of HFSA seemed to be quite well known even during the beginning of the 20th century as the soviet communists added it to water supplies to keep people compliant, as did the nazis when they had gained power in the 1930's.

The United States of America is in the grip of a seething revolution which, in part, is a fight against this creeping apathy brought on by the addition of these kinds of fluorides to the water supplies of literally 10's of thousands of towns and cities across the USA. Let us hope that vitality will burst forth and that common sense action, love and tolerance will prevail?! The compliance that this suppression has brought, has also given humanity a myriad of compounded complex diseases that are virtually impossible to treat while the maintaining cause of these diseases is continued every time fluoride products are put into water and, as we have recently been told, many processed foods too. Especially cakes, biscuits, teas, coffees, beers and breads. Which almost all people in the USA eat or drink.

THE EXPLOSION OF POPULATIONS IN TEA DRINKING COUNTRIES.

For for some cultures Tea drinking acted as a mild but substantive disinfectant preventing a great deal more disease. Here one can think of the cities of Japan and China and to a lesser extent the Koreas and then later from the 18th Century, of Britain and it's rather unique Tea drinking culture. Fewer outbreaks, despite disgusting conditions in many of the the cities of newly industrialised England. Because of Tea there was literally an explosion of populations in both the UK and China and Japan and the Koreas.

In the UK, tea drinking enabled people to live right up to the 1970's without proper facilities and not succumb to serious epidemics. In the north of England some houses still had outside toilets only up till the 1990's.

The last of the 'slums' of London (*The Elephant and Castle*), Liverpool, Newcastle, Edinburgh, Manchester, Birmingham, Glasgow were demolished, mostly in the 1950's and 60's and unlovely prefabricated concrete blockhouses with 'all new modern conveniences' were built. By scam artists who robbed a lot of people of decent housing. These concrete blocks were similar to many of the housing projects thrown up by different countries after World War II.

The design of most of these projects left out the human element. They were usually very ugly and quite grim and built as quickly and cheaply as possible. Many corners were cut during their construction. And so for decades, these estates and projects became run down breeding grounds for all kinds of criminality. Contractors fleeced the taxpayer via government awarded contracts, to quickly build new cheap and large amounts of housing units. Many of the new houses and blocks had to be demolished 10 years later because of dreadful systemic problems with the buildings. Huge leaks terrible mould and damp problems. Poor lifts. Lots of crime. In some cases, the joints that were required to staple the floors to connect floors with walls, which came in kit form were often not attached. Things got that bad. There were housing scandals concerning government, local politicians and building contractors well into the 1970's. So Britain got an explosion of crap housing. Of course some houses were very well built but many were not. And that was the scandal.

ATTENTION TO THE SICK AND WOUNDED

Since the time of our second pre-Dynamite war: the Crimean war (1853 - 1856) onwards, attention to the wounded and surgical techniques have improved out of all recognition. If we look to the bloodstained barber surgeons of the armies of the 500 years previous to 1856 in the West, who only knew how to cauterise and amputate, often. Anything less would have meant permanent systemic gangrenous infection and then death for most of those, with limbs infected by un-plucked bits of wood and metal sticking into and out of them.

In most Western minds and experience, ignorance, repetition with little inquiry and no hygiene was often the model for much of medicine, until the beginnings of Hygiene improvements for the wounded; beginning at the hospitals at the Crimea which later precipitated the building of hundreds of new hospitals in the cities of Britain as a result of that war. In India and China, their differing medical traditions, of Chinese medicine and Ayurveda were, perhaps, already more enlightened. They, at least, had a "holistic" approach to the patient. Western missionaries, doctors and settlers dismissed indigenous medical techniques saying that theirs were superior. The western approach is often reductionist. In the West, after a battle, you would be lucky to escape with your life; let alone, any limbs. Hygiene was the key to the general improvement of health standards. As long as the distribution of basic practical medical services is a clean one, then health, generally, in populations, can be said to have definitely improved.

Now, 165 years after the Crimean War, micro laser surgery can be used to get to the deepest and smallest parts of the body without having to cut the whole body up. Here too, do we see the explosion of better care for the sick. Now, of course, we also see that much of what we may term as Western Medicine is in the hands of monopolies who act as cartels for the big Pharmaceutical corporations. But they are 'hidden away' by the doctors unions and the medical equipment companies. It's not that they are actually hiding, but they are quite 'secretive' about how much experimentation is being conducted on unwitting patients and how much is actual genuine healing. It is a big industry that generates enormous revenues. However we must often ask. Are many of these 'professionals' truly caring for the sick? Because when we look deeper, they are, often, feeding off the sick, in many cases. Mining the sick. Especially in the case of 'repeat prescriptions' which are perceived as useful to the corporations. But not so healthy for the sick.

The explosion of incarcerated Elders.

We must look too, at the care of our aged and infirm members of society who have been shut away in commercially owned homes looked after by paid employees who have differing standards of care but in nearly all cases act as conduits for the pharmaceutical corporations by the explosion of constant, continuous, until death, 'repeat prescriptions' of drugs. Many of which do nothing, or they make things worse and create other chronic health problems which are usually written down on some of the enormous labels one gets with the medicine that indicate contra indications and side effects. In so many cases, the medium that Mankind's food is grown in, is sprayed with disease causing chemicals. Feeding the medical monopolies an endless supply of sick people. A veritable explosion of chronic diseases for doctors to wonder at and to tinker with and obviously to stay employed as doctors with fat pensions and share options in pharmaceutical corporations. A repeat explosion of a self feeding medical sickness system. (*The Iatrogenic Paradigm*)

BIG BANGS

Dynamite, or at least a modern silicon based explosive, can be packed into a nuclear bomb. It appears, that detonating two simultaneous explosions of dynamite charges is enough to force an explosion of nuclear fissionable material. The kind one sees on any film of nuclear bomb tests around the world. The force of the explosions are enough to literally split the atoms of whichever fissionable nuclear material happened to be encased within the bomb in question.

If we look at it in slow motion, the dynamite explodes from two ends either side of the nuclear material. These two opposites do not have to be exactly opposite to one another. Rather they can be adjacent, only. The force of the explosions sets off a chain reaction within the fissile nuclear material. This chain reaction then forces the splitting of the atoms of the fissile material which then, releases a huge amount of very dirty radioactive energy. First as a sudden flash of super x rays, the kind where one can see through the flesh of one's skin through to the bone..and then, as sudden expansion of explosions upon explosions of energy escaping being released very suddenly. A mini, fleeting dirty Sun. Chain reaction. This outward push of energy in all directions gathers up dust and sucks in air further igniting the flammable oxygen in the air. There is a rush outward a force of air combined with massive heat and various radio x rays and other forms of radiation (Alpha, Beta, Gamma) that emit varying degrees of mutating radioactivity by latching onto the dust particles that are flung outwards with the force of this hot explosion. Then there is your large mushroom cloud. Sometimes bombs are exploded above the ground i.e. an airburst to maximise destructive capability. It is often the principle, now, to shoot a Plutonium bullet into a mass of Uranium to then, get a reaction. So engineers constructed a shooting range inside a bomb.

THE UTTER INCREDIBLE STUPIDITY OF DEPLETED URANIUM BOMBS, SHELLS and BULLETS

In Depleted Uranium (DU) shells, which are used to pierce armour (*Tanks, APCs, Buildings*), the shell tip, which is the depleted uranium part, pierces the metal of the tank/vehicle; which sets off the explosive charge, behind which, is a copper plate that melts immediately at the moment of explosion. The actual DU missile tip, when it explodes, becomes dust or shrapnel. Between the copper, the explosion and the DU, this immediately forces a huge hole where thick plate metal used to be. The exploding super hot melting copper and the shrapnel from the vehicle being very effective at killing people inside vehicles like tanks which, at the moment of explosion immediately superheats pouring through in hot liquid form on contact. Not nice at all but very very effective. But, due to their long term pollution problems, these weapons, like phosphorus bombs, should be banned. They are very bad for the long term health of all fauna and flora whatever their particulate matter touches.

As weapons, they make perfect sense. Armour piercing. However the environmental and human cost of using DU weapons goes on for so long and lasts such a long time that the initial reason for the weapon has completely been lost but the pathologies that remain, last forever. A SUPER CUMULATIVE POLLUTION PROBLEM. Down the generations. Radioactive uranium nuclei last for a great deal of time. It is entirely unnecessary, completely stupid and is utterly barbaric, in the extreme, to use these weapons, as their long term health effects are, simply, cumulative and truly terrible. A specific lobby should be formed to relentlessly harass the Pentagon and the directors of the arms corporations into seeing the incredible stupidity of DU. These weapons should be banned from all warfare. Immediately. They are literally just muck spreading more active nuclear particulate material around the planet and into all of us. This will go on and quietly accumulate and continue to be active as long as these weapons continue to be used. Very effective immediately. Very bloody stupid!! consequently.

This is the mindset of the people who manufacture and authorise these weapons. The Sun mindset. The constant explosions. When one explosion happens then that area is rendered null and void for some time. The military mindset can continue because the empathy part of the military character is also null and void. This is why people can be violent. It is as if a part of them keeps being destroyed within them and this enables a lack or hiddenness of empathic feelings for the consequences of their actions. For, surely, part of Human kind's very odd character is to 'kill the thing he loves'? if there are DU particles left behind then this area could be left null and void forever, just due to the effects of the radiation that is emitted from these often very tiny nuclear particles of depleted uranium. But to the military industrial mind, the site of the explosion and the consequences of these explosions are completely disregarded. They have moved onto other territory, other battles, other exercises, other wars.

And so what is left after a DU bomb has exploded is more than just immediate damage. Which can be truly terrible, bloody, maiming, destruction. But the destruction just runs and runs carrying on, still, although the war is done and the damage inflicted....the stain of DU remains. And it just is not that easy to remove. Like vaccines or chemotherapy or

glyphosate; like agent orange. They leave a little of themselves behind. And this is breaking down or altering DNA and producing cancers. Like parasites embedded, just sucking off the host. This is of course, really wonderful for the medical professionals who deal with all the dreadful cancers and auto immune problems produced by Depleted Uranium.

We now only need go to a city like Fallujah in Iraq to see the consequences of the United States Armed Forces using Depleted Uranium bullets and shells to dig out a rather insistent group of fighters. These fighters were embedded in the city of Fallujah and were fighting among civilians, who were getting hit with all the various crossfire. Literally thousands of DU shells and bullets were used against these fighters. Then, when the conflict was over and the damage repaired, and life had returned to their normal, the children that were being born to many mothers, afterwards, were stillborn or born with terrible mutations. Tentacles, split faces, 3 eyes, two heads, 4 arms, conjoined with multiple extra mutations.. Truly terrible for all the poor people concerned (*Our Hearts go out to the mothers and fathers of these poor creatures!!*) All because the United States government and it's military industrial complex still insist on using Depleted Uranium. Of course one cannot just get upset with the United States, alone. Other countries have made terrible messes of parts of the planet. As recorded in Saturn ~ Conflict ~ Plutonium

If one were to do a survey of recent areas of action in war by the US military, over the past 40 years; back from 1980; one would most likely find an increased occurrence of exceptional mutation in babies being born to women who live in these areas. Almost guaranteed. The United States should be held totally accountable for the consequences of the uses of these weapons. Which their government authorises. It would behove those who have been affected by these weapons to launch massive class action law suits against the corporations that manufacture these weapons. After all, did they show any mercy at all when they manufactured or used these weapons? none, whatsoever.

This says a lot about the mentality and mindsets of the people who can authorise or directly produce or use these weapons. We should all be worried by this mentality. They are simply in massive denial about the consequences of their actions. Sure they may well be very rich and powerful, but they have shown zero empathy. And this needs to change. We need real humane humans to manage our World. Right now all we seem to have is Psychopathic children in suits or uniforms or white coats. Literally. Back to: 'it's mine!' again.

WARFARE AS A MEANS TO THE EXPLOSION OF INDUSTRIAL POLLUTION THE WEAPONS MAKERS OF AMERICA

As with all things to do with war. There is a great deal of greed behind war. War exists because of greed. Hence the need for secrecy. The covetousness of those who want war is usually why entire areas, countries, whole regions are destroyed or left in a state of violent chaos where evil men are all that are left to rule.

It really does seem that throughout the incredible arms build ups, testing and wars perpetrated by the United States military, that they have also, quite casually, used their own country as a testing ground for all kinds of weapons.

Because those in the military and the world of armaments in organisations like the Central Intelligence Agency may have thought, at one stage, that they had the space to test these weapons. Here we focus, quickly, on the United States and it's thoroughly bloated military industrial complex. Other countries, also, have great amounts of armaments China, Russia, Israel, the UK, France, Turkey, India. But all these are totally dwarfed by the capacity and amount that the United States has devoted to it's military industrial complex in order to bully the rest of Our World into doing what it wants.

But, now, if we look, over time, particularly since the end of the Civil war in the USA 170 years ago, We see that the almost the whole landmass area of the USA has been used as a testing ground for absolutely every single type of warfare imaginable. Weapons muck-spreading. Not only that, but the industries of the USA, coal, oil, steel, timber, paper, agriculture, chemicals, manufacture have also horribly polluted vast areas of the USA over what is really a very short space of time. Of course the corporates who 'do' all this pollution, ignore it.

The Mississippi River and it's associated towns and industries are a case in point. The Mississippi begins right up in the Dakotas and empties into the great Gulf of Mexico. Huge industries use the water of the Mississippi. But they also dump into it. And what they dump then gets pumped or dumped back into the Mississippi River and ends up in the Mississippi Delta and the Gulf Mexico. The Gulf Stream, now called the Atlantic Conveyor, which is a huge current/river of warm water, currently runs from the Gulf of Mexico right up the vast Atlantic Ocean to past Scotland right up through the north Atlantic. A very important climate regulator. If Atlantic conveyor did not convey this warm water, the isles of Ireland and Britain would be under an Ice sheet 100 feet thick.

And so all this dumping of toxic chemicals and wastes into the Mississippi is pouring into the Gulf of Mexico. Not only

is this happening all day, every day, but there are also 200,000 oil wells drilled into the sea floor of the Gulf. From Venezuela to New Orleans. Now, if one of those oil wells blows, and it's contents are dispersed everywhere, that means billions of lifeforms that live in the Gulf will die. (Example: *The deepwater horizon oil spill caused by BP in 2010 which spilled 4.9 billion gallons of oil into The Gulf and beyond*) Then, the oil company responsible will spray the sea with a chemical (co-exit, for instance) or cause a general lowering of oxygen content within those areas of Sea affected. Which can be very widespread indeed. (Look at how a coconut shell can float from Fiji to Arabia and land there and establish itself?) All through the various currents that permeate the oceans that act as weather regulators. The greatest single polluter is in fact, The United States military machine. It has dumped literally oceans of waste and pollution in the pursuit of belligerence.

The naughty co-exit that the oil company has sprayed to cover up the mess it's oil spill made, will kill off and mutate the remaining lifeforms. The amoeba, the plankton, the krill, the shrimp, the bottom feeders, the small fry, the middle sized fish and the rays and marlin and sailfish, sharks and dolphins and turtles. Then any birds that try to dive in and catch fish or birds that happen to nest near the shores where all the beaches and rocks get covered in co-exit covered oil. All this dreadful pollution and chaos just to try to dissipate the oil and break it down. And these are the consequences of the stupidity of Humans who want to drill for oil in our deep seas.

Eventually our Gulf stream will be affected by all this incredible continuing pollution. This may have a rather detrimental effect on our climate here in the UK and we, here, in Blighty, will freeze to death or become like north Norway or Spitzbergen. Where nothing can grow. Again, we return to desolation. Too much Sun energy ie. our technological explosion, will always kill us. Our relatively recent and very sudden explosion of multiple instrument technologies is part of this Sun phase. But we still need our Sun. Our ever exploding being that we are flying along with, in such smooth motion.

Nobels' Patents: Dynamite, Gelignite, Cordite, Ballestite

Alfred Nobel, as a man, was driven, focussed and highly prolific. He worked very long hours. All day, every day. He was literally bursting with vital mental energy. The kind that further explores outward and outward. What old Nobel forgot to do for a lot of his life was take note of the consequences of some of his inventions. He had crises of conscience, which he suppressed, because he was so interested in his work. And his work was about discovery and extension of discovery. Rather explosive, generally. When he died he had 350 patents to his name.

Unfortunately, for literally hundreds of millions of others, his inventions ended their lives or the lives of their loved ones or maimed them, in terrible ways, for the rest of their lives. Physically, mentally, emotionally and spiritually. Warfare is a crucible that changes Man. It is the anvil on which mankind is forever hammered, beaten and shaped.

Part of the terrible consequence of something like World war II, for instance, is how most men who came home after the war were shocked to the core by what they had seen and done. These days, people casually label it "Post Traumatic Stress Disorder" or PTSD. Many men could not cope and became alcoholics. A true darkening of the Sun for many. If we look at the habits of those in films from say post 1940 to 1980 we see, that, in any social/war drama men and women turn to drink as a way of pausing in a story and jumping into the next part of the story. Alcohol is always featured. Look at almost any film from France, Britain or the USA post WW2. Any war drama, or post war action film

After WW2 in Russia, which was then, the Soviet Union, almost all men, who returned home, became alcoholics. Their experiences in the Soviet Nazi war would never leave them. There were no sophisticated or loving techniques to relieve so many men and women of the shocks and traumas they had had to endure. Or the same that they had perpetrated or become part of. They also had to come back from the war to communism. These poor folk who had fought their way to Berlin came home to find that they would be arrested for merely having just been in the West. It really was like that. So, no 'thank you'. Except to the high profile war heroes who could not be arrested. But their lives were surveilled all day every day.

Like those refugees who now come to us from their bombed and burnt out cities which the West (*The intelligence agencies: CIA, MI6, Mossad, Special forces*) have helped to destroy by arming the rebel groups and training them to commit terror. Benghazi in Libya or Deir ez Zor or Idlib or Raqqa in Syria or Mogadishu in Somalia. These people are ALL traumatised by the warfare of machines and bombs invented by the likes of Alfred Nobel and used by people who have completely lost their humanity.

When it comes down to it, the generals and the policy makers and strategists and the politicians are literally little boys

and girls with very nasty toys. We know how cruel groups of children can be to one another when they do not have a firm adult hand to guide them and just nudge them in a more constructive direction? If children are left to their own devices, they become monstrous animals who are not fit to be called animals. More like demons. Demons with Nukes. Dreadful. Think Lord of the Flies with neutron warheads and AI robots. And little boys and girls don't have a developed consciousness. They are without any empathy or forethought as to the consequences of their acts of war and their continuing push for war. Which is why we are always at war. Because someone somewhere else always seems to be saying 'it's mine!'. This is part of the greater theme of these pages. Here, in the sections to do with conflict, all of the materials are pursued or coveted or used to enormous effect by people saying 'it's mine!' all the time. As a 'way' of being. This is a problem when so few own so much and so many are going without.

None of this disparity needs to happen. Except, because so many laws are legislated in favour of those with the most money. Those, somewhat more selfish types, are skewing entire markets in their favour and creating unnecessary instability. The ultimate solar pull towards the exploding Sun of everything. In these actions which are repeated over and over, this too is like our ever exploding Sun. This gravitational magnetism of the very few sucking in so much towards them, is now a huge problem of total imbalance of resources shared. We have had much destruction shared, but not the resources of Our World. Not really. Not if we consider the fact that the billionaires of the world only give 0.07% of their wealth directly to the poor (*the billionaires use sophisticated financial mechanisms to hide money and to keep access to money that would otherwise be paid in taxes: Trusts. Covenants. Foundations.*) then we are faced generally with an imbalance of 'attitude'. Which runs throughout most of our societies.

Our attitudes around obedience to wealth, most likely, have to change. Money buys power but it will never buy integrity or respect. Only actions get integrity. And, after all, are not cohesiveness and integrity among the greatest of all ideals? Hahnemann, the discoverer of homeopathy, called Health: "The Highest Ideal" and in these times, one maybe forgiven for thinking he's right? Over two centuries later with all the incredible explosion of compound pollution that is mounting up. Better health is almost the best way a way to obtain other ideals. The enabler to greater things!

The list below is there to illustrate the explosive development of the military part of the military industrial complex. How this has come to wrap us up in it's embrace. And we hardly notice. But, we awaken, a little, when we 'see' some of what Nobel invented. He is one of a few who totally revolutionised Our World. Others (*Rothschild, Ruckerfeller, Carnegie, Ford, Edison, Tesla*) were doing revolutionary things with oil or banking or vehicles or power generation but Alfred Nobel was all about the extended arts of Smithing and Alchemy. He invented processes that totally threw our world into something like fifth gear. His entire life was lived around the secrets of stabilising materials that acted like the Sun. These materials were uncontrollable. And so, Nobel's life was about taming these fiery exploding cobras that could do big scary unpredictable things, instantly. World changing.

Nobel lived a very sickly life with many "Sun" type illnesses that were also treated with many of the things that made him sick in the first place. This is the purest example of the definition of 'maintaining causes'. His early life was difficult. He was always sick. His mother bore 8 children, but 4 died early. He was one of four surviving brothers who all went onto great entrepreneurial careers until Emile's sudden death in 1864 from an accident at the Bofors plant in Stockholm. Which exploded. Alfred was in another building, and was also injured. Robert and Ludwig went onto become Our World's first giants of the Oil business. While Alfred died childless, the other two brothers, Robert and Ludwig were eventually to lose the corporation they created to the nationalisation of the communists in the newly formed Soviet Union 1918.

A great irony is that towards the end of his life Alfred Nobel's conscience about the effects of war and it's amazingly destructive consequences induced him to leave the legacy of the money for the Nobel Prizes including the prize for peace. *****

It turns out, that until the announcement in the French newspapers of the death of Alfred Nobel's brother, Ludwig, in 1888, mistakenly printed, as Alfred, Nobel was suddenly faced with a crisis of conscience regarding his most destructive inventions. The newspapers, who had mistakenly thought that Alfred had died, instead of his brother: Ludwig, printed a scathing, insulting obituary: Calling him a "Merchant of Death". Which, of course, he was. Nobel was somewhat shocked at the realisation of the acceleration of weapons making that he was contributing to. All that death, all that suffering, all that terrible destruction. And also all the potential death and suffering through such weapons. After 1888 he started to give consideration as to what he should do with his incredible wealth. But he did not slacken from further inventions to do with the improvement in the efficiency of weapons of war

Alfred Nobel died in 1896 from a series of massive strokes. This is also part of the pattern of nitro glycerine explosive pathology. His lasting legacy, as he left no heirs, was to leave the vast bulk of his fortune to a trust. (*funny how trusts pop up*) And the committee that is a part of this trust, oversees that awarding of the Nobel Prizes.

Nobel left this legacy to the Academy of Sciences in Stockholm who, every year, decide who should be worthy of the prizes, to do with Literature, Peace, Science, Economics, Medicine. These last three, he stipulated, were for ideas that made money as well as improving things in society. However in past years, perhaps, out of wishful thinking, the committee for the Nobel Prizes seems to award the Peace prize to the wrong people. Almost without fail. A most mis-judged thing. It really does seem that, many institutions are now, 'committing suicide' because they are simply so out of touch with the needs and wants of the people they are supposed to serve. And because they simply keep doing the 'wrong thing' all the time.

Alfred was often close to death with various attacks from his various illnesses. In his mind, he wanted to tame the explosive Nitro Glycerine for it's huge prolific industrial uses and applications which were rapidly expanding at this time (*the last decades of the 19th century are an incredible time for the increasingly rapid development of all kinds of technology*)

And so, some of the things that we take for granted were invented by the likes of Nobel. They are near us or around us. And we barely notice. Others of his inventions have taken literally, hundreds of millions of lives. Perhaps into the billions? Our World today is a much noisier place because of Nobel and some of his inventions. The huge irony is how Nobel helped to make explosives safe. Humans have harnessed Sun energy in lots of ways. But it has not really brought us Peace with ourselves, with each other or with Nature. As All should be.

A SELECTION OF THE COMMERCIAL PATENTS FROM THE LIFE OF ALFRED NOBEL. 1833 - 1896.

PAT NO:	YEAR:	USE:
Swedish Patents		
1261	1863	Ways to prepare Gunpowder
668	1864	Method for the blasting of Nitroglycerine
63	1864	Improvements in process of mixing and preparing and use of Gunpowder
99	1866	Ways to prevent the freezing of Nitroglycerine
102	1867	Dynamite or "Nobel's Gunpowder"
1352	1876	Ways to make solid explosives from Nitroglycerine denominated gelatinated Nitroglycerine
2158	1889	Ways to produce Nitroglycerine containing explosive matter (Ballestite or Nobel's gunpowder)
2752	1890	Ways to produce Nitroglycerine containing explosive matter (Ballestite or Nobel's gunpowder)
5671	1894	ways to produce substitutes for caoutchouc, gutta-percha, leather and varnishes)
227	1894	Safety fuses
228	1894	Method for sealing of projectiles and for preventing gas leaks and burnout in firearms.
229	1894	welding and soldering of metals
394	1894	Pipes shafts cannons and other heavy metal pieces of of wire welded together.
845	1894	Sound and recoil inhibitors for firearms
1324	1894	Hardening
7096	1895	Devices for sealing of projectiles and prevention of gas leakage and burnouts of firearms.
6637	1895	Methods for internal forging of firearms barrels and other tubular metals, intended to endure great strain.
7552	1896	Progressive smokeless gunpowders and ways to prepare it
447	1896	Gunpowder (improvements)
8347	1896	fuses for explosive projectiles
808	1896	projectile with rocket engine, lit by a timed ignition.
8237	1896	Press nozzles, tiles and other objects with fine holes of predetermined finite diameter and the method of producing such..

1122	1896	Rocket device with engine.
1231	1896	Ways to provide pressure on pistons at forging presses and similar machine
8390	1896	A device for machines for drilling holes in blocks for guns, axes and other metal pieces.
9773	1897	Nitrocellulose gunpowder and ways to prepare it.
9775	1897	Progressive gunpowder and ways to prepare it.
10257	1897	Self propelling and rotating projectile
10036	1897	Firearms with self propelling and self rotating projectiles (Rockets, similar)

English Patents

2507	1857	Gas meter
177	1859	Apparatus for measuring water or other liquids
556	1859	Construction of barometer or manometer, with the aim of creating a cheap and easy to transport pressure gauge.
2359	1863	Improvements in the production of gunpowder
1813	1864	Improvements in the production of Nitroglycerine
1345	1867	Improved explosive and primer for same. Dynamite.
442	1869	Explosives, Nitroglycerine is added to a mixture of combustible substances which are not explosive in themselves such as powdered saltpetre or coal.
1570	1873	Improvement in the production of explosives. small amounts of paraffin wax, sterin and similar substances may be added to the explosive mixtures and prevent exudation of nitroglycerine.
4342	1874	Method for producing sulphuric acid.
153 2523	1875	Burner for lighting purposes
4179	1875	Improved explosives (blasting gelatine)
224	1879	Apparatus for gasification of liquids
226	1879	Production of Explosives
227	1879	Container for hygroscopic explosives
2314	1879	Purification of pig iron.
2399	1879	Enhancement for the production of explosives Pressed black powder has greater effect if triggered by a specially prepared detonator.
2880	1879	Apparatus for the production of Steam or distillation of liquids
4104	1879	Apparatus for the concentration of Acids.
5383	1884	Improvement on Evaporation and concentration of liquids
10860	1884	Improvement in the production of fuming sulphuric Acid.
5252	1885	Treatment of explosives. Nitroglycerine can be dissolved in a non volatile solvent with a boiling point higher than 200 deg C for example tar oil, The mixture is not explosive. Nitroglycerine can be recycled by adding oleic acid which dissolves the tar oil, but not the nitroglycerine.
9022	1885	Containers for Hygroscopic (moisture sensitive) explosive
9125	1885	Production and use of explosives.
14053	1885	Method to decompose rocks by heat.
5330	1886	Production of explosives. Tar oil, camphor etc may be added to Nitroglycerine to reduce it's sensitivity to shocks.
5331	1886	Production of Explosives. Mixture of Nitroglycerine and nitrate, chlorate or perchlorate.
15556	1886	Improvement of Explosives and their use in

		projectiles and torpedoes.
371	1887	Regulation of the pressure of cannons
926	1887	Gun with a projectile
3674	1887	Methods to counteract the rifle recoil
5840	1887	Improvement of Explosive projectiles.
16919	1887	Improved detonator / detonating composition.
16920	1887	Safety explosives of copper ammonium nitrate for coal mines containing coal dust or explosive mine gasses
1469	1888	Explosives. Method producing gunpowder with barium nitrate instead of saltpetre.
1479	1888	improvement in the production of fuses.
1471	1888	Improvement in the production of explosives, smokeless powder and ballestite.
6560	1888	Improved explosive. Nitrocellulose as additives to explosives.
10722	1888	Improvement of explosive
568	1889	Improved methods to prevent ignition and retard combustion.
1988	1889	Method for preparing explosives for use.
12307	1889	Improvement of method to prepare and use of explosives. Production of rifle cartridge or Cannon charges of smokeless powder.
14678	1889	Improvement of bullet cartridges and weapons for the same
6021	1890	Improvement of the rifle. Ways to prevent over heating of the bore of machine guns.
11212	1891	Improved method to generate compressed gas for motor operation.
1891	1891	Improved method to provide effervescence under pressure to obtain motor fuel.
11645	1893	Explosive
020234	1893	Artificial rubber
020467	1893	Improving safety fuses for mines and similar purposes.
15914	1894	Improvement of the production of artificial rubber
11346	1895	Improvement of forging of drilled metal subjects.
12384	1895	Improvement of gas seals around projectiles.
15294	1895	Construction of fuses for projectiles.
6431	1896	Improvement of explosives. Method to lower temperature of explosives
10118	1896	Improved method of making photographic maps or measurements of land
14000	1896	Improvement of war rockets, means for maintaining or increasing the initial velocity.

Exploding IrishMexicans

Only one film comes to mind when thinking about Dynamite. It is a film about Dynamite made by a man who has the name "Leo" in his name. He is Sergio Leone. And of course Leo is correspondent with the Sun. Leo is THE Western Astrological Sun sign.

The film, which is called "A fistful of Dynamite" is story set within The Mexican Revolution (c.1910 -1920). The Mexicans were going through, what still looks like, even today, ongoing social and economic turmoil. Then, during the second decade of the 20th century, Mexico was involved in a civil war between the landed catholic banking interests and the interests of the peasants, the indigenous natives, the artisans and the intellectuals. These last were generally oppressed or marginalised by the landed gentry and the church who had carved up vast estates in Mexico for themselves at the expense of the natives, over the previous 370 years. These landowners then hired thousands of these peasants into their various armies who became enforcers for the state over the rest of the population. In some countries the film was called "Duck! you Sucker!"

The film takes place in the dusty wastes of northern Mexico later in the decade, and concerns the parts played in it by a self interested Mexican outlaw and an Irish freedom fighter. This freedom fighter was with the IRA (*the Irish Republican Army. Itself formed out of the political wing of Sinn Fein which means 'ourselves alone'*). This was an organisation banned by the British government, then, simultaneously, under huge pressure as they were thick in the First World War. The British government sent in irregulars (*most real men were at Sea or on the fronts at Flanders or Gallipoli or in Egypt or Mesopotamia or the Balkans*) to root out the rebels against British rule in Ireland, These were sent in on the orders of Winston Churchill and these units used were known as the 'Black and Tans'. Their treatment of the Irish patriots, who were subjected to punitive police state tactics further fuelled Irish Nationalism which eventually allowed Ireland (*with the exclusion of the 6 counties of Northern Ireland*) to fight for and declare independence in 1921.

Lloyd George, Churchill and the British government governed Ireland with a mixed force of around 30,000 policemen and soldiers. They governed according to the rather oppressive English model. Eventually from the beginnings of World War One, more and more discontent against the British in Ireland began to brew and, in 1916, an attempt was made to suppress the Irish freedom fighters by sending in these irregulars, the Black and Tans. This precipitated the 'Easter Rising of 1916' where there was fighting in the streets of Dublin with Irish Free State irregulars fighting against the rapacious 'Black and Tans'. The 'Black and Tans' just upset everyone by further using oppressive nazi like police state tactics which became a public relations disaster for the British government. A Solar self explosion. The Black and Tans in Ireland were generally very prejudicial towards the Irish and treated them cruelly. And in 1919 with the fuel of seething resentment against the British and their methods, the Irish war of independence exploded.

Eventually, when enough people see their oppressors for what they are, they overthrow them. The Irish patriots eventually threw off their suppression by the British and kicked them out of most of Ireland by 1921. The peculiarity of Northern Ireland is that the counties of this area were loyal to the British Government; even though county Londonderry and Belfast city had/have large Catholic minorities. Like the rest of Ireland. The Protestant northern Irish wished to remain a part of the UK. And so it is today. The peculiarity of the island of Ireland is that it is culturally split along these religious and ideological lines.

The character in this film "A fistful of dynamite", had to leave Ireland quickly and escape to somewhere where his skills as a sapper, demolition and arms expert would be 'more appreciated'. Originally he was going to head for the Silver mines of Mexico. In the film, our Irish anti-hero has a bottle of Nitro Glycerine that has a dropper. It is kept in thick glass bottle inside a special container with springs and padding. To stop it from jarring. One bottle half the size of a wine bottle would destroy most of a mountain if improperly dropped or jarred along bumpy unmade roads without serious protection. In those days there were very few made roads anywhere. Tracks, certainly, but not many real roads. Not yet. From the bottle, our main Irish character, played by James Coburn, proceeds to drop one drop of his clear liquid Nitro Glycerine on to the ground away from him and there is an explosion. Just one drop! From then on, with the haunting music of Ennio Morricone to guide us through, the film is one explosion of one sort or another with the deaths of literally, thousands of people. Lots of tableaux shots of dead bodies. And, in war, that is the result of what happens when dynamite type explosives are used. Lots of dead bodies.

* * * * *

There is a rather odd connection with Saturn here in our most explosive of Sun materials. It is the base in which our rather unstable Nitro Glycerine is made stable. The diatomaceous Earth substance. This is immensely Saturn in its' nature. Of course, we all know, Dear Friends, that Saturn governs the Earth. Or rather what is hidden in the Earth or under the Earth. And so this dynamite substance is nothing more than The grounding of Solar Nitro Glycerine by Earth. Dynamite is used to unearth what is in the Earth. The Ungrounded ground .

Two years after the death of Nobel, in 1898 a german chemist invents a new and similar but more penetrating and more stable Explosive than the, now, ubiquitous industry famous, Dynamite. This explosive with various plasticisers or phlegmatisers added to the original compound Cyclo-trimethylene-trinitramine is called, variously: Hexagen, Cyclonite, which later becomes RDX and after that various forms of C4 which are now a ubiquitous explosive in many types of bombs and projectiles. As well as being a mouldable waxy type substance that is suited for close or covert warfare.

DROPPING BOMBS

Here, below, are examples of the amount of explosives or bombs or bomblets used during various wars that the United States and it's allies have been involved in since our pivotal year of 1850. These lists are to just demonstrate a continuous upward expansion of the military industrial war machine that has, now, so saturated our cultures. Yes! States and governments and cultures continue to go to war more and more. But as more and more wars are fought there is an interesting divide occurring. The countries that go to war, separate their populations from their military. However many 'civilians' work directly or indirectly for the military. The Military is the machine that so many serve. Whether they know it or not. The State separate their populations from the actual conflicts. Which are in 'other people's countries'. Through a mixture of state and corporate propaganda, populations are rendered impotent. The UK France and the USA are 'employers' and a life in the military appears to provide some career stability. For those individuals who are part of the great military structures of Our World, Government policy or reaction is to use the military to achieve it's aims. This is most definitely the case with countries like the USA, the UK France, Israel and various others who come and go out of our historical tale. For very many complex reasons, often to do with monopoly power. Many wars have been proxy wars. Bigger powers have armed and advised the governments or rebel movements of smaller countries, by providing weapons, equipment, money, and other material items.

As we shall see further on. War is usually about a group of people attempting to possess territory and turn the minds and bodies of the people in these territories towards the so called ethic that the war mongering countries are promoting. Usually a completely false ethic. "The American Dream" "La Belle France" "The British way". But, as we shall see, when we reach the Planet: Saturn, War is really about the possession of wealth and materials in the hands of no more than a class of less than half a million which in turn is also about controlling people. This controlling aspect is now almost a mass psychosis among so many human beings. And yet they are virtually unaware of how much this controlling aspect destroys almost everything we love and hold dear. . And so those who actually promote the war are often not even those who actually want and will pay for the wars. Their wars have to be profitable. And they really are. This is why Our World still has war. Because, Dear Friends, All wars really are Bankers wars.

It is the Financiers and Bankers who instigate all wars. In order to go to war these bankers employ the governments that they have all secretly bought, to promote war. In turn they use the corporate press networks to visually and vocally promote the wars. However, because of the internet, more and more people understand that war is, in fact, just a bankers con game. And these people should be held completely accountable for all the death and misery that they have been entirely responsible for. Because they wanted their Salt, or their Gold, or their precious metals or their Oil. these materials are located, inconveniently, on someone else's territory. And so because of the possessiveness and immense greed of these bankers and those minions they employ, we still have war and death and conflict. Until we learn to let go of trying to control so much, then all matter and states will degrade rapidly.

The lists below are another illustration of how Solar we are as a species.

They are lists of bombs, missiles, and other explosive armaments used. Often, against civilian populations of 'other people's countries', as an excuse to wage war against opponents who actually only wish to possess the territory that they are in. Rather than reaching over to someone else's territory and trying to possess it. As is the case with most recent wars. They have very rarely been about people. Only about resources. Often buried in the ground. The people living on the ground prove inconvenient to those who wish to possess their mineral wealth from afar.

The Statistics for Gulf War 1 1991.

Number of bombs dropped on cities = 210,004
 Number of Cluster Bombs dropped = 39,336
 Number of 'smart' bombs dropped = 9,342
 Number of Air to Ground missiles fired = 5,930

Gulf War 1 Jan 17th to February 28th 1991.

number of Troops entering Iraq = 670,000
 number of combat aircraft = 2,250
 amount of sorties flown adds up to = 65,000 days and nights
 Amount of bombs dropped on Iraqi towns and cities = 88,500 tons
 Tomahawk missiles fired from ships in the Persian Gulf = 300 missiles
 Number of depleted uranium projectiles fired dropped on Iraq by the USA = 940,000
 number of depleted uranium projectiles fired dropped mortared by the UK = 14,000

THE AMOUNT OF EXPLOSIVES USED DURING THE US CIVIL WAR 1861 -1865.

In researching this title, it was discovered that the statistics compiled about the major wars of the 19th century, going into the 20th, were not full or thorough. Some war statistics are available, but regarding the amount of explosives used as a total for observing war and what war does, are not available until the aftermath of the 1st World War. After this period, far more detailed observations were carried out and recorded regarding every aspect of making war and what it took to provide for war, as well as arms expenditure and accurate casualty numbers. Certainly, numbers of explosives used in events like the US Civil War or the 2nd Opium War in China can be roughly calculated. But not all is recorded in war during the heat of battle or pursuit or retreat. These wars are about Europeans, and Later, Japanese and Americans consolidating their holdings in their own home territories and then later as shows of imperial might when the Europeans and Americans compete with one another for Empire. The American mindset has always been in denial about not being colonists, but America too quickly acquired 'an empire' When it trounced Spain in the Spanish American war of 1898. Very likely begun as a false flag operation with the sinking of the USS Maine in Havana Harbour. The United States easily defeats Spain and acquires the Philippines, Cuba and Puerto Rico. There is resistance to the United States in the Philippines until 1903.

The Parrott rifle shells had cannonballs stuffed with explosive which were time delayed to explode when reaching target.

Statistics: 620,000 dead

The North in 1861 had 21 million in 23 states

the south in 1861 had 9 million including 3.5 million slaves in the 11 states.

The North's industrial base and capacity for growth just dwarfed the production capacity of the South.

The South had a large Officer corps which enabled better tactics - But the South's ingenuity, the fact that it was fighting on Home ground - The North was trying to keep the Union and going to war to keep the South in the Union.....the South was trying to break free. During the civil war there were as many as 384 battle sites across the south. Many are now shopping malls or housing developments

World War 1 stats.

Involved 65 million people from 30 countries

Deaths statistics for wars since WW1.

From the late 1990's Nobels companies were the Australian corporate group ORICA had taken over I.C.I.

dynamite manufacturing capacity in Australia....big mining industry in Australia....Dynamit Nobel AG in Germany..... And the european part of the Norwegian Dyno Nobel. SIPE in Italy and Nobel Bozel in France.

In Chemicals and Weapons manufacture, competition is usually met with consolidation. And there we, again, gravitate towards large monopoly Monolith corporate business. Nowadays usually owned by a Holding company.

WAR STATISTICS

MAJOR WARS: 1850 - 1914

The Taiping rebellion in China 1850 - 1864

The Crimean war 1853 - 1856

The Lorcha War in China 1856

2nd Opium War in China 1858 - 1860

The Indian Mutiny 1857 A war fought in British India

The US civil war 1861 - 1865

Civil wars in the German confederation /Denmark/ Austria. 1861 -1866

The Franco Prussian war 1870 - 1871

The war of Italian Unification 1852 - 1870

The Russo Turkish wars of the 1870's to gain access to the Caucasus region.

Civil war in Japan 1876 - 1878

The Zulu Wars of South Africa 1870's

The British war with the Ashante in Ghana during the early 1870's

Civil War in Spain 1870's

General wars against the north American Natives 1800 -

The Madhist wars of Africa 1888 -1893

The Sino - Japanese War 1894

The Spanish American War 1898 -1903

Italian Abyssinian War 1896

The Boer Wars 1. and 2 1886 and 1899-1902

The Russo Japanese war 1904 - 1905

The Mexican Revolution 1910 - 1920

The Balkan wars 1912 and 1913

Further hostile Italian aggression in Africa 1912 - 1913.

Amount of explosives used during the secret bombing of Cambodia and Laos during the Vietnam War.

260 million cluster bombs were dropped, just on the country of Laos, between 1964 -1973

Until 2003 Laos was the most heavily bombed country in history - more bombs were dropped on Laos than during the whole of WW2. The bombing of Laos was the equivalent of one plane load of bombs dropped every 9 minutes 24 hours a day for 9 years. 7 bombs for every man woman and child living in Laos, at the time. literal overkill.

In 2010 there were still 78 million bomblets still left undiscovered all over the Laotian countryside. As of 2010 less than 1% of the remaining bomblets have been found, cleared and rendered useless. According to sources in Laos, approximately 300 people a year are still killed by stumbling upon or digging up unexploded cluster bomblet ordinance. 60% of the victims being children.

* * * * *

The United States is built on Explosives.

Mines dug deeper and pulled out more, more quickly. At least until 1945 Dynamite type explosives could be said to have revolutionised the Technological growth and social structures of our world.

For Breaking rocks to clearing for roads to clearing for fields, hard to reach became easier to reach.

Deeper.

During the Vietnam War there were various concerted US bombing campaigns.
 Operation Rolling Thunder = 1 million tons of Bombs
 Operation Commando Hunt was the bombing of the Ho Chi Minh Trail running through Cambodia and Laos.

Total Explosives used
 World War II = 2, 150,000 tons
 Vietnam War = 7, 662,000 tons

BOMBS FROM THE AIR

World War 1 = 16,000 tons of Bombs

World War 2 = 1.6 million tons of Bombs

The Korean War = 600,000 tons of Bombs

The Vietnam war = 7 million tons of bombs

IRAQ WAR I

Iraq war 1 = 88,500 tons of bombs
 (operation desert storm: January 17th to February 28th 1991)

Number of bombs dropped on Cities: Gulf war 1 1991 = 210,000
 Number of Cluster bombs dropped Gulf War I 1991 = 39,400
 Number of Smart bombs dropped Gulf War I 1991 = 9,342
 Number of Air to Ground missiles fired Gulf War I = 5,930 + 300 Tomahawk missiles fired from ships in the Persian Gulf.

After the media fuelled hostilities ceased, two “no fly” zones were established by the NATO/US forces in Iraq. One in the south of Iraq and one in the north. Leaving the central part of Iraq. These no fly zones were constantly monitored and any unauthorised military activity (*authorised by the NATO/US high command*) would be severely dealt with. Aircraft would be shot down, any military vehicles destroyed. House to house searches, patrols in the streets. Men often carrying 70 kgs of equipment and wearing uniforms in a country where temperatures can reach 40 degrees centigrade or more. Concurrently very severe sanctions were enacted against the country and People of Iraq. These sanctions remained in force under the Clinton (1992 -2000) and into the GW Bush (2000 -2008) presidencies. Madeline Albright who was secretary of State under the Clinton’s said the deaths of 500,000 Iraqi children were ‘a good price to pay’ for the suppression of one dictator (*Saddam Hussein: who the American CIA had put into power in the first place in the late 1960’s, along with his family (from Tikrit) and his family networks and the Ba’ath party*). Iraq was starved of seeds, fertilisers, imported foods, medicines and other basic necessities.

The absolutely insane part of this entire Iraq war episode is that, while the world under the domination of the USA imposed hugely punitive sanctions on Iraq, the source of the problem, as far as the Americans were concerned, which was Saddam Hussein and his family and networks, were still allowed to remain in power.

That all changed of course, when the World Trade centre was demolished on September 11th 2001. Auguries would call this ‘a most auspicious event’ A numerologist’s dream. the Twin Towers, themselves representing an 11: Two paths. or a gateway to other paths between the two ones on the 11th day of the ninth month of the year 1 of the 3rd millennium.

Not only that, they were representations of the power of Wall Street, the gigantic financial and military power of the United States at the south end of the Island of Manhattan where the rich kings and queens of New York City fight it out as Gangs of New York. Now the Gangs of New York fight it out luxuriously while the real wars take place in the lands where the resources are. That these lands are destroyed to make the gangs of New York rich.

Bombs dropped from the Air.

World War 1 = 16,000 tons
 World war 2 = 1.6 million tons that’s 1,600,000 tons
 Korean War = 600,000 tons
 Vietnam war = 7 million 300,000 tons.

During the Barack Obama presidency, over 120,000 bombs have been dropped on 'Other people's Countries.'

George W. Bush unleashed 70,000 bombs

Airstrikes: under GWBush = 70,000 Authorised

Afghanistan 61,000 Airstrikes 2001 - 2014

Afghanistan 21,000 bombs and missiles in 2001 / 2002

Airstrikes under Barack H. Obama = 100,000

800 airstrikes on Iraqi 'no fly' zones 2000 - 2002 = 800

Airstrikes in Iraq 2000 - 2013 = 34,000

29,200 airstrikes on Iraq during 2003 ...which some war planners compared to nuclear war

During the American occupation of Iraq, there were 4000 airstrikes 2003 - 2014

There were 400 airstrikes in Jan 2008 in Iraq

563 Airstrikes on Pakistan and Yemen during the Obama years.

There were 7,700 airstrikes on Libya under the Nato inspired gulf co-operation council in 7 months 2011 / 12

The NATO Gulf Co-operation Council bombing of Libya was a crossed red line for the Russians who had observed and tolerated the US UK Israeli Saudi led aggression which manifest as terrible endless territorial wars in other people's countries for their resources.

By July 2015 there had been 118,000 airstrikes in 15 years

US Special Forces were in 60 countries before the Obama Presidency

During the Obama Presidency US Special Operations forces were 138 countries.

2016 USA dropped 12,192 bombs on Syria

12,095 bombs on Iraq

Somalia civil conflict has caused over 500,000 casualties since 1991

Since the beginning of the announcement of the 'War on Terror', 2001 The USA and it's allies have dropped 291, 880 bombs and missiles on 'other peoples countries.

The USA dropped 26,171 bombs in 2016

The USA dropped 28,714 bombs on Syria and Iraq in 2015

Over 50,000 missiles and bombs dropped in over 15,000 sorties,

2017 Military Budget for the USA = \$654 Billion

Average amounts of bombs dropped during the 3rd Millennium

George W. Bush = 24 bombs a day

Barack H. Obama = 34 bombs a day

Trump Presidency to June 2018 = 121 bombs per day

The Trump Presidency, to june 2018 has dropped one bomb every 12 minutes.

On 10th September 2001 The secretary of Defense, Donald Rumsfeld announced that the Pentagon had a \$21 Trillion deficit.

On 11th September 2001 The World Trade Towers were destroyed and a missile hit the Pentagon

in the accounting department at the part of the building that had collated the figures that amounted to that \$21 Trillion. The news media conveniently forgot about the deficit and focussed instead on the shock generated by the destruction of the Twin Towers and the very peculiar destruction of the accounting department of the Pentagon.

Obama expanded the Drone war tenfold during his Presidency.

Between September 2001 and 2016 over 2 million people had been killed as a result of US military action abroad.

Death squads working for the governing council of Iraq were set up to dispose of enemies that the Americans did not like. Those killed were those who did not serve the corporate agenda.

Approximately 180,000 bombs and missiles were dropped on Iraq and Syria during both the Bush and Obama Presidencies. 2000 - 2016

Afghanistan 25,000 bombs and missiles dropped between 2007 and 2012

63,000 bombs and missiles were dropped on Afghanistan from 2001 - 2016

Obama presidency 2014 ordered 496 airstrikes in Libya

547 Drone strikes in Yemen, Pakistan and Somalia

The CEO of General Dynamics was Lester Crown. He and his Chicago family sponsored Barack Obama and

consequently, the Obama bid for his one term in Congress. They then, further sponsored the Obama bid for the presidency in 2008. The Crown family are part of the culture of weapons making in the USA. Crown and his family manufacture the Virginia Class of submarine and the newly designed Zumwalt class of Destroyers.

The move to Scotland before WW1 and the endless amalgamation and breakup and re-nationalisation of arms companies and their secrecy enshrined in statutory law. The amalgamation of his arms companies

SUNSET

Well, now, Dear Friends! We have come to an ending. We have come to the end of the Sun phase of our explanation of materials. The Solar-ness of how they are, how they act, how they behave, their properties. We hope that the materials, that have been laid out before you, have demonstrated to all, that their primary affect upon humans, is upon the heart and circulation. That, they affect the mind, the eyes and the mood and are Solar materials.

We have journeyed far. Having gone into our first Planet. Of course, from the modern point of view, the Sun is not a

planet. It is a star, a great big fiery ball of ever exploding gas that throws out an enormous amount of heat and radiation. But, according to our ancient Greek friends and their inheritors, the alchemists, the word 'Planites' meaning 'wanderer' is how they described these moving points of light. For, like the Sun. It is a moving point of light. A big one. Our biggest. The other points of light that move are the other planets. All the star formations that we see are in fixed positions. While the wandering planets move about, circling around our Sun, which is itself flying through space circling a huge black hole.

MOONRISE

We have been pounded and forged while going through these strange journeys.
 We have gone straight, by road and by path and by spiral. Forward in time, gathering experience.
 Now, as we continue our rather oddly swirling path,
 we see a more silvery light ahead.
 Almost like a mirror
 and soon we are at the mirror.
 It is a most beautiful mirror.
 Dreamy and often perplexing.
 Sometimes it shimmers.
 The frame is ornate and is fashioned from Silver.
 There are symbols of the Planets embossed and
 welded, soldered onto the Silvery Lunar Frame.

And now, we must take our leave of Solar matters and stand in front of the Mirror. We turn, one last time, to look back at the yellowness: the white radiant shininess of our magnificent, glorious Sun. We bring in the heat and warmth we bathe in it's life giving radiance and we are immensely grateful for it's existence. Something we may often forget. Then, we turn away and turn our attention to the Mirror. We will climb in. We will extend our arm to reach that reflected world that we see. We may never return in quite the same way, once we have climbed into this silvery Lunar World. But, we now feel, that after the forging of our selves within the Solar, that we are tougher and stronger for having come through all our spiky, sunny, serpentine, saline, shining, shhoomy, Solar materials. We have been exploded and pounded and ground up and reformed and exploded many many times. It is these materials sheer physical presence in Our World, that has a never ending array of subtle and not so subtle effects upon all of us. It is showing us how layered we humans all are through Time and Substance. We are part of substance and substance becomes part of us, whether we realise or not. It could even be said that the we, you, i are part of everything, and that everything is part of we, you, i. We are blended in and things are blended into. Hence the spiral.

For now, the Mirror of the Moon beckons.
 For, while the Solar influence has been male and hot,
 we shall cool down when we enter the dreamy realms of The Moon.
 And how, Dear Friends, can we hold back?
 She beckons and pulls us she attracts us to her
 through her strangeness and through her darker softer colours
 She is so female,
 Her charm is irresistible,
 She draws us near.
 We see her full and shining, with her white phosphorescent glow
 her landscapes almost seem so close that one could step on them and walk
 and so we step in: Head, legs, arms and body
 And, into The Mirror of The Moon, we go!