Time Travel, Marilyn Monroe, Dinosaurs, and Aliens

by

Alexander Popoff

“If I had a time machine I'd visit Marilyn Monroe in her prime,” Stephen Hawking.

www.alexanderpopoff.com

Table of Contents

Humanity is perfectly visible to extraterrestrials 4

E=mc^2 or how to visit Marilyn Monroe 9

Dinosaur Extinction Mechanism Finally Revealed 18

Alien Bugs 36

The Hidden Alpha 46

Humanity is perfectly visible to extraterrestrials

At a meeting of the Royal Society in London, in trying the explain the current failure of SETI to discover extraterrestrial civilizations, Frank Drake said that phasing out analog transmissions from TV, radio, and radar is making our planet electronically invisible from outer space, because while an old-style TV transmitter might generate a million watts, the power of a digital satellite signal is around twenty watts.

The digital revolution does not make civilizations invisible to extraterrestrial search. On the contrary, the electromagnetic radiation of our civilization is getting stronger and stronger, and we are sending an increasing amount of radio waves into space.

Today, WHKY-TV's (an independent TV station in North Carolina) digital signal now operates at 600,000

watts, roughly equivalent to 1.2 million watts for an analog transmitter. The station currently has a construction permit to boost its power to 950,000 watts.

CBS 8 shut off its analog transmitter in late 2008. Now it is sending out a digital signal at one million watts.

On June 6, 2011, the Federal Communications Commission granted WAND, an NBC-affiliated TV station, a construction permit to move its digital frequency back to its former analog allotment, and to operate its digital signal at the maximum one million watts.

Military and science radars are also sending out millions of watts.

The transmitter system of HAARP is officially able to produce approximately 3.6 million watts of radio frequency power. The pulsed or continuous signal is sent into the ionosphere. According to some researchers, the output power can reach up to 300 million watts and the military has patents to boost this power output to over a hundred billion watts. These high figures of billions of watts are still unconfirmed officially.

The Russian missile defense and early warning radar Don-2N, which can also track space vehicles, is capable of monitoring air space at an altitude of 40,000 km

(24,860 miles). It transmits extremely powerful radio pulses of 250 million watts. Russia has even more powerful radars. The other major military powers in the world have similar radar systems, too.

Civilizations are using powerful signals in radio astronomy to explore the local star system and for communication with their probes and spaceships.

The number of TV transmitters, military and science radars, and so on, all around the world and in orbit is increasing. Their power output is also increasing.

The total level of electromagnetic noise from the inhabited planets is also growing. The electromagnetic radiation from Earth will travel thousands of light-years away.

The digital revolution is making the civilizations much more visible to extraterrestrial search.

Some scholars, including Stephen Hawking, are concerned that the deliberate sending of radio signals into deep space and the leakage radiation could be a serious risk, because we are revealing the location of our planet to hostile alien civilizations.

There have even been calls for a moratorium on deliberate radio transmissions into deep space to attract the attention of aliens.

There is absolutely no need to worry about this. The advanced civilizations from our Galaxy know that we exist and know exactly where we are. The spectral analysis of Earth's atmosphere alone is enough to reveal us, because it is specific to planets with complex life and technological civilizations. We cannot hide our atmosphere.

According to the second law of thermodynamics, the advanced civilizations create entropy in the form of waste heat that is drifting into outer space. It is impossible to hide the faint entropy glow.

The advanced technological civilizations from our Galaxy know where we are and what is our level of development.

For the mega-civilizations, these are mature intelligences managed to abandon their dying home universes, we are like a Monopoly game on the table, next to the sandwiches and the beer. We are totally visible, accessible, and manipulable.

This an excerpt from ***The Hidden Alpha*** **by Alexander Popoff**

http://www.amazon.com/The-Hidden-Alpha-ebook/dp/B00BESQH6S

$E=mc^2$
or how to visit Marilyn Monroe

"If I had a time machine I'd visit Marilyn Monroe in her prime," wrote Professor Hawking in his article "STEPHEN HAWKING: How to build a time machine," *Daily Mail*, 27 April, 2010.

I liked very much his idea and prepared to go back in time. I started with time travel research, reading reference books and articles, and exchanging emails with leading experts on time travel.

Scholars most often suggest using the following time travel methods: to travel faster than the speed of light, to use black holes, cosmic strings, negative energy, negative mass, exotic matter, or wormholes.

After making some brisk calculations with my favorite pocket calculator, I came to the conclusion that the easiest, and financially accessible, way to travel back and forth in time is to build a wormhole. Constructing a

wormhole is more or less clear, and I could make a time machine based on this technology in about a few months.

A wormhole, actually an Einstein-Rosenberg Bridge, is a "shortcut" through spacetime. She (ships, time machines, and wormholes are referred as "she") is a flexible tunnel that links two places in space or in time. You enter the mouth of the wormhole and in a split second you are on Mars, in Sombrero Galaxy, or you a having a lively chat with the charming exotic dancer Mata Hari, or are visiting the electrifying historical speech of Adolf Hitler in 1939 in Berlin.

After I successfully resolved the construction of a wormhole and a time machine, I began making research where in the past (and how exactly) to park in time the exit mouth of the wormhole, this is the other end of the flexible time tunnel.

Of course, the entrance mouth of the wormhole is anchored in our spacetime, say nearby Niagara Falls, April, 2013.

Well, so far, so good. I put again into action my pocket calculator to determine the exit time point in spacetime...wait a tick...in order to enter another time

one should enter another spacetime. Time and space are inseparable -- Einstein again, who else.

The moment of my visit of Marilyn Monroe in 1962 and the moment nearby Niagara Falls, April, 2013 should exist at the same time in order the mouth of the wormhole time tunnel to be in the present and the exit mouth to be in the past. There should be simultaneously two spacetimes, not two times in one space. There should be not only two times (2013 and 1962), but also two spaces. The two moments of history should be material, so we need matter for two universes. The first one that contains the present, look around and you will see what materials it contains, and the past one, May, 1962, which should contain in material form Marilyn Monroe, John Kennedy, Beatles, Fidel Castro, etc. -- all still nice and young -- nuclear missiles in Cuba and Nikita Khrushchev, and great many other things like planets, stars, tanks, lollipops...

One spacetime for every split second of the history. There cannot be simultaneously zillion moments of past, present, and future, using a single universal mass.

Different time means different spacetime; you cannot extract time from spacetime.

Our universe has 13.7 billions years of past. The present is more or less clear, and zillion years of future. In this case, zillion is an extremely large but unspecified amount of years because we don't know to which point of time the future reached.

Some researchers are offering time travel theories based on artificial mathematical constructs, but such abstract worlds could be inhabited only by figures and equations. We live in a material world postulated very well by Albert Einstein.

Trying to solve the problem with the impossibility to separate time from space, some time travel theories suggests that every moment of the past and future is represented by a parallel universe or slice of spacetime, which are somewhere in the multiverse. I breathed a sigh of relief. Every single moment of the history of the universe is stored in material form somewhere in the multiverse. Great! So, all desired objects to be visited are somewhere out there. I again took my pocket calculator to determine the number of the moments of past and future history, which are actually the number of the required spacetimes, taking into account that the life expectancy of the universe is about 100 billion years.

Every single moment of the entire history of the universe (past, present, and entire future) should exist simultaneously in order one to travel back and forth in time.

But since the universes can not be static (spacetime has a duty to evolve and make history) -- the parallel universes should also develop just like our universe and create their own parallel universes, which in turn should also have parallel universes...

Every zillionths part of the second should be created a parallel universe of our universe, and a great number of parallel universes should create new zillions of parallel universes, which in turn... Wow! In this case, zillion again is an extremely large but unspecified amount of universes, which emerge every second and are added to the storage in the multiverse.

"Shiver my numbers!" These large figures made my pocket calculator (and even the entire universe) a bit nervous because large numbers usually play dirty tricks.

The magic of large numbers was demonstrated centuries back in the past.

According to the myth, a man from India invented the chess as a gift for his king, who was so pleased with the game that he offered a great reward in

gold, but the chess inventor asked for one grain of rice to be placed on the first square of the chess board, two grains to be placed on the second square, four on the third, eight on the fourth, etc., doubling the number of grains of rice each time, until all 64 squares on the board had been used. Easy thing, thought the king and ordered his servants to bring a sack of rice. A few days after, he was informed that the reward would add up to an astronomical sum, far greater that the rice production of the kingdom for many, many centuries. The due 18,446,744,073,709,551,615 rice grains are about 300 billion tons. Now, the value of the rice is about 560 US dollars per ton. The king should pay to the crafty inventor of the chess about 230,000,000,000,000 dollars! 230 hundred trillion dollars! An impossible amount of money!

Impossible? The king should pay in Zimbabwean dollars. Until recently, there were in Zimbabwe 100 trillion dollars banknotes. You just give 3 banknotes and wait for a change of 70 hundred trillion dollars.

The chess board has only 64 squares. Some more squares would require the entire rice production of the Galaxy. A few more -- the entire rice of the universe,

then of the multiverse, of the metaverse, of the xenoverse, of the hyperverse, and of the omniverse (called “the end of infinity”). What, you think nobody outside the Earth produces rice? No problem. Put on the chessboard squares all sorts of molecules instead of rice and you will get the same picture. Very soon there will be not enough matter in the universe to continue the game.

What a about a chess with zillion squares? What about chess with zillion squares, which doubled every split second for 13.7 billion years?

Our universe should produce zillion parallel universes, and zillion parallel universes of the zillion parallel universes every second. We enter into the realm of pathological numbers.

Normally, people find it hard to grasp how fast functions like doubling make figures grow. The authors of *The Limits To Growth*, a 1972 book about computer modeling of population and economic growth and consequences of exponential growth, came to the conclusion that "Exponential growth never can go on very long in a finite space with finite resources."

Our universe is extremely large but still finite. Limited life span, limited volume -- it is about 93 billion light years across, limited matter -- there are about 10^{80} fundamental (elementary) particles in the observable universe. We should expect that the multiverse, even being much larger than our universe, has its limits, too. Humans usually consider the multiverse as "our" multiverse but it could be full to the brim with other universes and their parallel universes, and other objects and entities, which are beyond our wildest imagination. Maybe there is not enough space for our innumerable parallel universes.

So we cannot count on the idea that the past and the future of our universe are stored within the multiverse in the form of extremely large number of parallel universes.

Stephen Hawking has experimental evidence that time travel is impossible. In 2009, he hold a party for time travelers, but didn't post the invites until after the event. Hawking hoped that the invitation, with the exact coordinates of the party in time and space, will survive in one form or another for many thousands years.

No time traveler showed up.

I proved theoretically that time travel is impossible. Actually, Einstein proved that time and space are inseparable. I just applied his theory, which was experimentally proven many times, to time travel. To prove that time travel is possible one should prove that time and space are separable or to prove the existence of zillion parallel universes each representing every single moment of our past and future.

Since there is nowhere to go into the past or into future (out of the normal pace of time), I gave up constructing a time machine.

Don't understand me wrong. I also wanna visit Marilyn Monroe in her prime and chase the most beautiful girls of the past and future (forget about playing cards with Newton), but I need a realistic (and possibly properly working) time machine.

I still continue my research. Now, I am seeking for a used time machine (alien or human) in mint condition.

Dinosaur Extinction Mechanism Finally Revealed

In 1980, *Science* magazine published a dinosaurs-killed-by-a-giant-asteroid theory by Luis Alvarez. Critics asked how creatures outside the impact area were killed. Alvarez replied:

"From darkness. The impact created huge amounts of dust, cutting off the sun's power by up to 20% for 8 to 13 years."

Actually, the "dark times" lasted much longer - about 100,000 years, and started a long time ***before*** the impact events.

In an article published in *Nature* in 1989, Meixun Zhao and Jeffrey L. Bada reported that they had found isovaline and aminoisobutyric acid tens of centimeters below and above the Cretaceous-Paleogene (K-PG) boundary. The authors surmised that the collision of a massive extraterrestrial object with Earth may have produced this unique organic chemical signature because

certain meteorites contain organic compounds which are either rare or non-existent on Earth. Zhao and Bada suggested that the extraterrestrial amino acids diffused from the boundary clay above and below it. In the boundary clay itself, there are no amino acids.

In 1990, Kevin Zahnle and David Grinspoon of the NASA Ames Research Center suggested that the amino acids had been deposited for 100,000 years by cometary fine dust.

Max Wallis from Cardiff University argues that cometary dust delivered nonterrestrial microfungi or novel genes that were incorporated into existing microfungi on Earth and produced the amino acids.

The asteroid and volcano theories, which are prevalent among scholars, can't explain the presence of the two amino acids and the iridium spikes ***before*** and ***after*** the K-PG boundary, and how they were deposited for about 100,000 years.

In short, K-Pg extinction theories that can't explain the presence of uncommon amino acids above and below the Cretaceous-Paleogene boundary are not viable**.**

The K Comet

Long-period comets have highly eccentric orbits, extending to the far reaches of the Solar System, and periods ranging from 200 years to thousands or even millions of years.

Sometimes they make close passages by the planets and the Sun, diverting into the inner Solar System and becoming short-period comets.

Dust Clouds Phase

When comets approach the Sun, they begin to sublimate (cometary material transits directly from solid state to gas) and vaporize, creating an envelope of thin gas and fine dust. When a comet is heated to about 2,760 degrees Celsius (5,000 degrees Fahrenheit), it is hot enough to vaporize not just ice and gases, but also rock and metals.

Sunlight pushes the gas and the dust of the comet away to form a tail.

The comet is exhausted when most of the volatile material contained in the nucleus evaporates away by the Sun, and the comet becomes a much smaller, dark, inert lump of rock or rubble that can resemble an asteroid.

The size of the original K comet (K for Cretaceous, *or Killer*) was more than 100 km in diameter,

probably 300 to 400 km. Comets could be much larger than these dimensions, reaching diameters of thousands of kilometers.

If the orbit of the cometary dust intersects the Earth's orbit, our planet and its atmosphere sweep through the dust stream every year, experiencing meteor showers and the deposition of fine dust on the surface of the globe. The cometary dust, containing amino acids, iridium, etc. was exhausted for about 100,000 years.

The amino acids and iridium enrichment before and after the K-PG boundary had several peaks. It was deposited in layers with larger quantities of amino acids and iridium, ergo Earth passed several times through much thicker cometary dust clouds.

Because some of the dust particles are very small, they will be rapidly slowed to a stop in Earth’s upper atmosphere. Instead of burning up in a flash of light like the larger cometary grains, they will drift slowly to the surface of the planet. It will take months or even years for fine cometary dust to settle down from the upper atmosphere.

In such a flyby of a huge comet, Earth would accumulate a large mass of dust in the upper atmosphere,

slightly changing the climate and inhibiting the photosynthesis of land and marine organisms. Major food chains would be disturbed. The reduction of the plant mass would lead to starvation of plant-eating animals. The first victims were the large herbivores on land and in the oceans; especially the ones living at the Polar Regions, where the sunlight reduction by the dust cloud was more serious and the temperature drop was substantial, and the loss of plant mass was significant.

Large species at the top of the food chain, such as dinosaurs, are highly vulnerable to ecosystem disruption.

At the end of the Cretaceous, there were much more plant mass and animals per square km than today. Even small disturbances in climate, ecosystem, and food chain caused many animals to die off.

The Dust Clouds Phase lasted for tens of thousands of years before and after the cometary impacts.

The Cretaceous extinction began thousands of years before the K-Pg boundary.

Impacts Phase

Even nowadays, some comets meet a spectacular end - either falling into the Sun or smashing into a planet or other space body.

A recent collision of a comet with a planet occurred in July 1994, when comet Shoemaker–Levy 9 broke up into pieces and collided with Jupiter. Over the next six days, 21 distinct impacts were observed.

The after-effects of the impacts were visible on Jupiter for nearly a year after the event.

The estimates range from 2 to 10 km in diameter for the original comet body and from 1 to 3 km for the largest fragments.

The K comet was much larger, and the consequences for the terrestrial life were tremendous, even before the catastrophic impacts themselves.

A series of impacts of such a disintegrating huge comet could cause colossal earthquakes, giant tsunamis, massive wildfires of plants and fossil fuels all around the globe, and might activate volcanos and basalt floods, changing the chemistry of the oceans. The skies would be covered with thick a dust blanket.

The hitting cometary fragments would cause massive volcanic activity and basalt floods because the previous strikes would weaken the impact sites.

Most of the cometary aminoisobutyric acid and isovaline could not survive the fiery impacts, so in the boundary clay there are almost no amino acids.

About 70 percent of the Earth's surface is water-covered. Probably about 70 percent of the comet fragments struck the oceans.

If the K comet hypothetically broke up into several large pieces and a great number of smaller ones; a few huge chunks, some of them possibly 10 to15 km in diameter, would strike the land in a very short period of time. On Jupiter, the impacts lasted for six days.

Mesozoic Atmosphere and the Mesozoic Metabolism

Earth's primeval atmosphere consisted of mostly carbon dioxide, nitrogen, and water vapor. The atmospheric pressure was very high, probably about 90 bars or even higher, and it gradually reduced to the present 1 bar.

Over millennia, the whole chemistry of the Earth changed, also due to the first organisms, which appeared about 3.8 billion years ago. Oxygen, which is released as a byproduct of photosynthesis, appeared in the Earth's atmosphere; the carbon dioxide was depleted.

The atmospheric pressure during the Mesozoic period was about 3 to 8 bars, and it was declining steadily. The oxygen level was getting higher - it was between 24 to 28 %, some researchers state higher or lower amounts.

In the specific Mesozoic hothouse world, with a much denser atmosphere and high amounts of oxygen and carbon dioxide, animals and plants grow much larger and were more numerous.

The huge reptiles and insects could fly only in a dense atmosphere with higher amounts of oxygen. They needed more fuel (oxygen) for their metabolic engines and thicker air to support their wings.

The amounts of oxygen available to the metabolism of the Mesozoic animals depended not only on the percentage of this gas in the atmosphere, but also on the air pressure. The higher pressure also means more available oxygen.

Even if the percentage of the oxygen is the same, but the air pressure is higher, the amount of oxygen in a given volume is higher. The amount of gas in a given volume is determined by the pressure and the temperature.

During the Mesozoic, there was more oxygen available for metabolism of the animals - a higher percentage, higher pressure, higher temperatures. The higher temperatures and the higher pressure made the utilization of oxygen much easier.

If an animal breathes air under higher pressure, such as inside a hyperbaric chamber (or as it was during the Mesozoic), the amount of oxygen in its blood increases significantly.

About 80 to 90% of the metabolic energy of animals comes from oxygen and only 10 to 20% from food.

The Mesozoic species, especially the dinosaurs, took advantage of the large amounts of oxygen, the abundant food, and the steady, warm climate, with only slight seasonal variations.

The metabolism of the Mesozoic fauna was different from the modern one because the atmosphere they breathed was different.

The large dinosaurs did not need to be truly warm-blooded because they had enough energy (lots of oxygen and food) at their disposal, a steady and warm climate, and almost no rival species outside the dinosauria.

Not being truly warm-blooded was a way for them to resolve the problem of the overheating of their huge bodies in the hot Mesozoic climate. The removal of the body heat is more difficult in a warmer, wetter, and denser atmosphere. The large dinosaurs would be very troubled, if they were truly warm-blooded.

Avian dinosaurs became warm-blooded and smaller in order to fly more efficiently.

Metabolism was not the same by all dinosaurs. Some were more warm-blooded than others. Probably, most of them had a specific dinosaurian metabolism.

The Mesozoic atmosphere, with much higher amounts of carbon dioxide and higher atmospheric pressure, helped plants grow bigger and faster. With lots of plants, herbivorous dinosaurs thrived, providing lots of food for their carnivorous cousins. Both plant-eaters and meat-eaters grew fearsome.

Mammals, the present dominant species, can't reach the giant size of the Mesozoic dominant species, the dinosaurs, because the modern atmosphere is different - a lower percentage of oxygen, lower air pressure, lower amounts of carbon dioxide.

Dinosaurs were very well adapted to the Mesozoic period. They ruled over a specific world.

Dinosaurs can't live in the present world for many reasons - different atmosphere, different microbes, etc. Thus, present-day dinosaurs should be genetically modified in order to survive in the contemporary ecosystem. It's not possible to reconstruct in open habitat the original authentic Mesozoic world as Michael Crichton did in his fiction book *Jurassic Park*.

Energy Problem

What made dinosaur dominant became their major drawback during the K comet events.

For the Mesozoic plants and animals, the Cretaceous catastrophe was a metabolic disaster.

During the K comet events, the oxygen in the air decreased abruptly. Because comets have more volatile elements (frozen gases and liquids) and very high impact speed, they create tremendous plumes on impact, allowing part of the atmosphere to escape into space. With partially lost atmosphere, the air pressure became lower.

The oxygen in the deflated post-impacts atmosphere was decreasing because a large number of oxygen-

producing plants were annihilated by massive wildfires and the impacts; the lower sunlight levels due to massive dust clouds from the impact blast, volcanoes, prolonged fossil-fuel fires, meteoric dust, and wildfires reduced the oxygen produced by the dwindling land and marine plants.

The energy amounts available to the Mesozoic animals during the catastrophic events were tremendously reduced because of the huge loss of the plants mass and the drop of the available oxygen. The ecosystem could no longer sustain such a great number of animals. Especially affected were the huge species, which could not survive the energy deprivation.

The conditions were the worst during the cometary hits, but the reduced sunlight, the lower oxygen levels, and the food reduction lasted for tens of thousands of years after the impacts.

Researchers often ask the question why some species died off while others survived. The most important factor was body size - only small species survived the harsh period of severely reduced energy. Small animals cope much better with low amounts of food and

oxygen. Experiments also prove that small animals perform better in a low-oxygen environment.

Initial symptoms of oxygen deficiency may include fatigue, overall weakness, blood circulation problems, poor digestion, muscle aches and pains, dizziness, memory loss, and irrational behavior. When the immune system is compromised by a lack of oxygen, the body is more susceptible to opportunistic bacteria, viral, and parasitic infections, flu and colds.

In the heavily stressed environment during the K-Pg catastrophe, the animals needed even more energy from oxygen and food to survive.

Dinosaurs abruptly lost their metabolic advantages during the catastrophic events because air pressure and the oxygen levels dropped, food became scarce, the temperatures dropped, and seasons appeared.

Cope's Rule, named after the American paleontologist Edward Drinker Cope, postulates that population lineages tend to increase in body size over evolutionary time. Large animals find it easier to avoid or fight off predators, to capture a prey, or to kill competitors, etc. Although this increases each individual's fitness, it leaves the species more susceptible to extinction.

After the K comet impacts the competition was between the small animals. All huge species couldn't survive.

The average body size of the animals after the K-PG events was between 2 and 5 kg. All species over 25 kg died off.

The average surviving animals were as large as cats, chicken, and rabbits. The largest ones were as "huge" as dogs and goats.

The smallest dinosaurs were mainly from the late Triassic and early Jurassic. Most of them died off before the end of the Cretaceous period. Dinosaurs got largest in the late Jurassic and Cretaceous periods.

Large animals couldn't squeeze through the K-PG energy filter. The mode of dinosaur body masses was between one and ten metric tonnes.

After the K comet, the Mesozoic world was over.

Championship of Species in Troubled Conditions

Dust, lingering for tens of thousands of years in the upper atmosphere before and after the cometary strikes, changed the climate and reduced the plant mass; multiple impacts of the disintegrating comet, loss of part

of the atmosphere, reduced levels of oxygen, reduced air pressure, prolonged fossil fuel wildfires, huge tsunamis, changed chemistry of the oceans, massive volcanic activity and basalt floods, etc., created the specific pattern of the Cretaceous extinction.

The highly stressed post-Cretaceous environment was a very tough playground for the species, fighting to survive and dominate.

Mammals were evolutionary higher animals and they became dominant species on the planet ever since the K-PG extinction.

Their method of breeding gave mammals the ultimate advantage over the egg-laying species.

Because of the extensive fossil record of extinct dinosaur eggs, eggshells, and embryos, it is well established that dinosaurs laid eggs.

The principal disadvantages of dinosaurian reproduction compared to mammalian are:

1. The nutrients inside the egg are very limited compared to the continuous supply that mammals receive inside the womb;

2. The oxygen supply is much lower as well;

3. The temperature of the reptile embryo is dependent upon the environment, while the body heat of the mammalian fetus is constant;

4. Dinosaur newborns don't get the highly nutritious food that mammals do - milk;

5. Shorter gestation period. This is the time in which the fetus develops, beginning with fertilization and ending with birth.

Eggs hatch between 60 and 105 days after they are laid. The human baby develops inside the mother's womb for about 270 days. The human brain develops from three to four and a half times longer, and in a much better inner environment, than the dinosaur brain.

The developing sophisticated brain needs more oxygen, more nutrients, a constant temperature, and more time.

The mammalian fetus, developing inside the maternal body, can receive a continuous and generous supply of oxygen and all the nutrients needed to build a complex brain. The milk of mammals contains essential nutrients, important antibodies, and white blood cells. This is a perfect food for infants and for their energy-hungry, developing brains.

The brain of live-birth mammalian animals is evolutionarily higher than the brain of animals that reproduce through egg-hatching, and it is also far more sophisticated.

Even warm-bloodedness does not help much toward intelligence, if one hatches from an egg. Avian dinosaurs (birds) compared to the primates are a typical example.

Mammals were evolutionarily better players and won the world dominance trophy by a single stroke, thanks to the K comet. The non-avian dinosaurs were simply too large and too mesozoic to survive the Great end-Cretaceous Energy Filter.

The dinosaur extinction mechanism is finally revealed.

- -

My new research book on the Cretaceous-Paleogene mass extinction mechanism, plus about 100 theories on the dinosaur extinction, ***Dinosaur Killers*** will be published in early 2014.

Alien Bugs

The failure to detect alien microorganisms or alienoses (diseases transmitted from alien creatures to people) on Earth is a very strong argument against extraterrestrial visitations by alien creatures of biological origin.

Every year hundreds of thousands of UFO sightings, abductions of people by alien crews, medical examinations of humans in nonterrestrial spaceships, sexual relations with aliens, accidents, autopsies on alien corpses, and other contacts with extraterrestrial creatures are reported. Our bodies and our environment are teeming with microorganisms. It is normal to expect that the bodies of all living alien beings are also teeming with microbes (a diverse group of minute, simple life forms that include bacteria and viruses), which are harmless for their hosts, but sometimes deadly for us. The *alienoses (exonoses)* are diseases communicable from extraterrestrial organisms to humans under natural conditions, from

alien sentient beings, animals, plants, quasi-living beings, or currently unknown life forms. They will be a subject of (near) future medicine shortly after the first contact with alien creatures.

Normal flora are microbes living in and on the human body; usually there are no harmful effects for us, their hosts. It is sometimes said quite simply that there are more of "them" than "you" in you. Many billions of microbes live harmlessly on our skin and in the gut; we breathe them in and out. Numerous aerobic and anaerobic bacteria reside in certain human anatomical regions: in the lower intestine there are approximately 100 billion microorganisms per gram of fecal matter; in the mouth approximately 1 billion microorganisms per ml. of saliva; in the nose approximately 20,000 microorganisms per ml. of nasal washing; on the human skin approximately 100,000 to 1 million microorganisms per cm^2, depending on the tested skin surface. After puberty, the vagina is colonized by *Lactobacillus aerophilus*. One or more of the herpes viruses infect nearly 100% of the adult population.

Humans are symbiotic animals. Over 400 distinct species of microorganisms inhabit the various regions of

the human digestive tract, making up nearly 2 kg. (approx. four pounds) of every individual's total body weight. This vast population of microorganisms far exceeds the number of tissue cells that make up the human body. We have about 10^{13} cells in our bodies and 10^{14} microbes.

Normal flora fills almost all of the available ecological niches in the human body and produces defensins, bacteriocidins, cationic proteins, and lactoferrin, which work to destroy other bacteria that compete for their niche in the body. If this ecosystem is functioning properly, it guards the body against harmful bacteria, yeast, and viruses. It also stimulates the function of the entire digestive system and produces essential vitamins, such as vitamin K and some of the B vitamins, and regulates their levels, maintaining the body's vital chemical and hormonal balance. Human microbial partners should be in good physical shape just as humans themselves should be.

Researchers have detected retroviruses in the genome of every mammal they have examined. The retroviruses spend most of their time asleep; they are present only as extra segments inserted here and there in the

DNA. Humans harbor more than a thousand retroviruses, many of which have hitchhiked with us for well over 30 million years. In the placenta and the fetal tissues, a select handful of retroviruses awaken and command the cells to produce proteins and assemble them into retroviruses. The placenta and the unborn baby of a healthy pregnant woman are teeming with viruses as well. This is a normal part of every pregnancy. These endogenous retroviruses are actually encoded in the DNA of every mammal.

The human body can't be fully sterilized because such a specimen would die shortly thereafter—some of these microorganisms take part in vital biological processes, while others keep our immune system fit.

Aliens of biological origin and human astronauts would suffer microbic shock upon return to their home planets after adjusting to fewer microorganisms in the spacecraft, and they would respond negatively to renewed contact with potentially pathogenic microbes of their local environment that were absent during the space flight. Space travelers have to maintain their immunocompetence by carrying microorganisms native to their home environment in the cabins of the spacecraft.

The inclusion of plants, animals, and bioreactors in spacecraft facilities (human or alien) in order to provide life support requirements would significantly increase the numbers of microorganisms. There are many millions of bacteria per gram (dry weight) of plant roots. Fungi are important for baking breads and fermenting wines, beers, and vinegars. Many medicines are produced with the help of bacteria and fungi, most notably the antibiotics, like penicillin, streptomycin, tetracycline, etc.

There are many reports from all around the world describing men and women being taken aboard flying saucers and having sexual intercourse with various alien races, and even the birth of space babies. Microbes are transmitted by the direct transfer of bodily fluids, such as blood and blood products, semen, and other genital secretions from one person to another; they can enter the body through the lining of the vagina, penis, rectum, or mouth. The microbes can also be transmitted across the placenta.

Every day millions of samples of blood, human tissue, saliva, urine, feces, etc., are collected and sent to labs to be analyzed. Not a single researcher, physician,

or medical technician has ever reported an alien microorganism or alienosis.

There are persistent rumors that dead bodies of E.T. astronauts were found among the debris of the alleged UFO that crashed near Roswell. In 1947, Colonel Philip J. Corso claims to have seen the corpse of a dead alien in a wooden crate; it was supposedly one of the creatures that had been killed in the crash. Grady "Barney" Barnett, a government engineer, told friends and his son that he was one of the first to reach the crash site. He saw a disc-shaped object and the dead bodies of aliens. Dr. Weisberg, a university physics professor, said he examined the disc. According to him, the interior was badly damaged and there were six occupants; an autopsy on one of them revealed that they resembled humans.

Rescue, military, and medical personnel reported dead alien corpses at Roswell and other crash sites. Many extraterrestrial cadavers have undergone autopsy examination. Witnesses claim that in an underground base they saw a room full of canisters where bodies of dead aliens were stored. Graves of extraterrestrial beings are also reported. According to researcher Leonard Stringfield, the United States has recovered a total of more than thirty

bodies from crashed alien spacecraft. The UFOlogist Timothy G. Beckley supposes that about 110 extraterrestrial spaceships have crashed around the globe.

Since 1995, hundreds of TV stations all around the world have broadcast an alien autopsy film. Ray Santilli, a London-based film producer, claims to have bought it from a cameraman who took the footage in 1947 at the crash site near Roswell.

There are dozens of autopsy reports on alien cadavers recovered from various crash sites.

Glenn Dennis was the Roswell mortician in 1947. According to him, he saw debris from the crashed flying saucer and was told by a friend about corpses of smallish extraterrestrials. On the evening that the alien bodies were recovered, he "blundered" into the Roswell Army Hospital. A nasty officer confronted him, and Dennis was warned that if he ever told anyone about the crash or the alien bodies, "they will be picking your bones from the sand."

There are interviews with several medical doctors who did autopsies on E.T. bodies.

Jamie Shandera, a documentary moviemaker and UFOlogist, claims that he anonymously received a

packet that contained two rolls of undeveloped 35-mm film. He developed the film, which appeared to be part of a briefing report to the newly elected President Dwight D. Eisenhower, describing details of the Roswell flying saucer crash. According to these film reports, four alien corpses were among the debris of the downed extraterrestrial spacecraft; they had been mutilated by desert scavengers and were heavily decomposed after exposure to the elements.

Such decomposing alien corpses at the crash sites, their blood, urine, feces, saliva, etc., are for surely a source of extraterrestrial contamination. Healthy nonterrestrial astronauts are also dangerous. They could cause deadly alienoses. The autopsies and the preservation of alien bodies after World War II were not safe enough by modern standards, and contamination with E.T. microorganisms was inevitable. In any manned alien spaceship there would be food, canisters with samples of tissues and microbes, medicine, drinks, breathing air, plants, hardware, all kind of supplies, and so on, which are all sources of microbial contamination.

The governments on Earth could hide alien corpses, but they are not in the position to hide microorganisms left by extraterrestrial visitors. It's just impossible. No government (official, shadowy, secret, mythical, mystical, or whatever), organization, or individual on our planet has the technology to do that.

Where are all of the microbes left by the supposed aliens? It is highly improbable that the extraterrestrial microfauna are identical to those on Earth. Only one surviving bacterium or virus could multiply into billions in no time. There are many billions of microbes in just one body (dead or alive).

What could be worse for space travelers than a catastrophic breach in their high-tech protective spacesuits, which provide a life-saving flow of breathing air and protection against alien germs? According to numerous alien encounter reports, humans were in close contact with extraterrestrial astronauts, which are depicted as breathing terrestrial air, drinking water, eating human food, and so on, and most don't even wear adequate protective suits and helmets but only fancy skin-tight suits, silver suits, yellow ski suits, glowing aluminum suits, diving suits, jump suits, even Nazi military uniforms.

Some aliens were dressed like humans or in some sort of mockery of space suits, but many were actually naked during the contact.

Millions of humans are reported to have entered alien spaceship, and none wore protective suits. Germ contamination is equally dangerous for humans and extraterrestrials.

Researchers still have not detected extraterrestrial microorganisms on Earth, and one can conclude that there aren't any manned visitations (now or in the past) by extraterrestrial civilizations, or if there are any, they are very limited in number and activities and are under strict control.

Alien Bugs is an excerpt from the research book *The Hidden Alpha* by Alexander Popoff

The Hidden Alpha

by

Alexander Popoff

Why doesn't Superior Intelligence contact humans openly?

A truly satisfactory hypothesis answering the extraterrestrial intelligence conundrum should answer all these questions:

Why don't we observe the activities of alien civilizations in the cosmos: robotic space probes, accidents, astroengineering, star wars, spaceships, communications, signals, radio wave leakage, and so on? Why don't alien intelligences visit the Earth?

What are all these phenomena: UFO, precognition (knowledge of future events, mainly through extrasensory means), telepathy, levitation and teleportation, miracles, impossible coincidences, telekinesis, shaman healing, religious phenomena, men in black, visions of mythological creatures, etc.? Who or what is causing them, and why?

A Fermi paradox resolutions that does not take into account the previous evolutionary cycles of our universe and the presence of mega-civilizations from previous universes or other universes can't satisfactorily explain the grand question of non-terrestrial intelligence, and its attitude and behavior. Accepting the fact of the existence of mega-civilizations and the cyclic evolution of the Universe greatly changes the picture of the developing Universe, life, and intelligence.

The Hidden Alpha answers many questions about survival and extinction of human and alien races, and their future; and raises new questions.

TABLE OF CONTENTS

Introduction: The Vector

Our genes make us. The inheritable vector makes the Universe, Life, and Intelligence.

CHAPTER 1

Equal Start Hypothesis

The intelligences in our Universe started at about the same time.

Dinosaurs on the Moon

Fermi Paradox

CHAPTER 2

100 Fermi Paradox Hypotheses

CHAPTER 3

The Battle for the Future

Only a few will survive.

CHAPTER 4

Alien Bugs

Alien Nutty Professors

Alienoses are diseases communicable from extraterrestrial organisms to humans.

CHAPTER 5

Von Neumann Machines

vs.

Popoff Machines

CHAPTER 6

Mega-Intelligences

These are mature intelligences managed to abandon their dying home universes.

CHAPTER 7

Global Language

Clash of global swarms and global intelligences.

Common European Language

CHAPTER 8

Alien Invasion

&

Independence Day Myth

CHAPTER 9

Existential Risks or Bust

Roots of the Future

Dead Hand

Aliens on the Moon and Mars

CHAPTER 10

Homo Futurus

Universal Man

Progressors, uplifters, and star trekkers.

POSTSCRIPT

Pebbles on the Lakeshore

Dr. Faust and Magnus.

For the mega-civilizations, we are like a Monopoly game on the table, next to the sandwiches and the beer. We are totally visible, accessible, manipulable, and contactable.

The Hidden Alpha

http://www.amazon.com/The-Hidden-Alpha-ebook/dp/B00BESQH6S