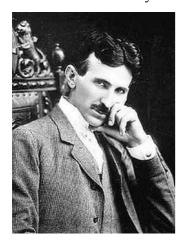
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TESLA AND PYRAMIDS

Abstract

Nikola Tesla (10 July 1856 – 7 January 1943) was an inventor and a mechanical and electrical engineer. Born in Smiljan, Croatian Krajina, Austrian Empire, he was an ethnic Serb subject of the Austrian Empire and later became an American citizen. According to legend, he was born precisely at midnight during an electrical storm. Tesla engaged in reading many works, memorizing complete books, supposedly having a photographic memory. Tesla is often described as the most important scientist and inventor of the modern age, a man who "shed light over the face of Earth". He is best known for many revolutionary contributions in the field of electricity and magnetism in the late 19th and early 20th centuries. Tesla's patents



and theoretical work formed the basis of modern alternating current electric power (AC) systems, including the polyphase power distribution systems and the AC motor, with which he helped usher in the Second Industrial Revolution. Contemporary biographers of Tesla have regarded him as "The Father of Physics", "The man who invented the twentieth century" and "the patron saint of modern electricity." (http://en.wikipedia.org/wiki/Nikola Tesla)

In this paper, we give an overview of Tesla's rain engineering, started and never finished technology of pyramid as generator of negative ions. Tesla projected pyramidal tower, known as

Wardenclyffe tower, that was erected at Shoreham, Long Island, N.Y. It was 57m high, with the spherical top of 21m. A crystalline pyramid, with the belonging underground rivers and tunnels, functions as a generator of useful negative ions with automatic power regulation. In 1892 Nikola Tesla got the idea to create a machine for the production of rain which would create favorable conditions for developing life in some regions. This machine of

Nikola Tesla circa 1896

This machine of Tesla's was supposed to work on the principle of strong ionization of atmosphere in a split second. Instead of Tesla's shocking

ionization of atmosphere, the original pyramid builders were in possession of a technology capable of less powerful, but continuous and almost unnoticeable ionization of atmosphere.

Thousands of years after having been built, Bosnian pyramids still function excellently, to this day. Bosnian pyramids are covered in green vegetation and the landscape around them is marked with green valleys with plenty of benefitial negative electric charges which come from under the pyramids. Continuous ionization of the atmosphere preserves local eco systems. The whole Bosnian Valley of pyramids is a network of underground tunnels and underground rivers, which is confirmed by numerous ground-water aquifiers.

The desert landscape with no green vegetation around Egyptian pyramids brings me to the conclusion that they are not functioning well. There must have been some kind of failure in the system. Perhaps the underground tunnels caved in. Perhaps somebody deliberately closed some of the tunnels and therefore obstructed the stream of negative ions. Perhaps some underground waters have dried out or perhaps a great flood caused redirection of underground water flows. It remains a mistery.

Considering all of the above, we can see that the original pyramid builders were technologically more progressive than Nikola Tesla. That is why it is hard to believe the theory of Egyptian pharaohs organizing the construction of Egyptian pyramids – tombs. Egyptian pyramids were built long before the first appearance of dynasties in Egypt, by a civilization unknown to us, which has not yet been discovered by archaeology or history.

Key words: Nikola Tesla, Rain engineering, Pyramidal tower, Long Island, Electrical storm, lightning strike, *Austrian Empire*, America, Sphere at the top of the tower, Generator of negative ions, Pyramid, Wardenclyffe tower.

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PROFESSIONAL BIOGRAPHY

Born 1970 in Osijek, Croatia; He has a master degree of electrical engineering from the University of Zagreb; He is an authorized engineer of electrical engineering for the design and control of electric installations; Since 1998, he has been a member of the Class of electrical engineers of Croatian Chamber of Architects and Civil Engineers, http://www.hkaig.hr.



Since 1994, he has been researching geopathic radiaton, bioenergy, biophysics, biomedical electronics, polycontrast interference photography – photon camera. He is a pyramidologyst and researcher into border line areas of science. His primary area of interest is energetics of pyramids, especially electromagnetic fields around pyramids.

He published the book, co-authored with Kanjski Vilim: "The secrets of the pyramids revealed", Teledisk, Zagreb, 2008. He writes regularly magazines worldwide.

INTRODUCTION

Nikola Tesla is probably the greatest inventor in the field of electricity and magnetism ever, one that will be hard to surpass. In the year 1977, on the occasion of the Celebration of the 120th Anniversary of the Birth of Nikola Tesla organized by the Yugoslav Academy of Arts and Science, Školska knjiga Zagreb company published Tesla's autobiography "My inventions" (ISBN-13: 9780899187778).

In this book Tesla describes, among other things, his original idea and the purpose of constructing the Wardenclyff tower on Long Island, which never saw its completion.

One day, as I was roaming in the mountains, I sought shelter from an approaching storm. The sky became overhung with heavy clouds but somehow the rain was delayed until, all of a sudden, there was a lightning flash and a few moments after a deluge.

This observation set me thinking. It was manifest that the two phenomena were closely related, as cause and effect, and a little reflection led me to the conclusion that the electrical energy involved in the precipitation of the water was inconsiderable, the function of lightning being much like that of a sensitive trigger. Here was a stupendous possibility of achievement. If we could produce electric effects of the required quality, this whole planet and the conditions of existence on it could be transformed. The sun raises the water of the oceans and winds drive it to distant regions where it remains in a state of most delicate balance. If it were in our power to upset it when and wherever desired, this mighty life-sustaining stream could be at will controlled. We could irrigate arid deserts, create lakes and rivers and provide motive power in unlimited amounts. This would be the most efficient way of harnessing the sun to the uses of man. The consummation depended on our ability to develop electric forces of the order of those in nature. It seemed a hopeless undertaking, but I made up my mind to try it and immediately on my return to the United States, in the summer of 1892, work was begun which was to me all the more attractive, because a means of the same kind was necessary for the successful transmission of energy without wires.

TESLA'S RAIN ENGINEERING

Nikola Tesla saw clearly that water is life, the essential element in the origin and the development of life on the planet Earth. In arid regions there are hardly any life forms. Only

water can make the desert green. Tesla wanted to make a device that would create lightning and thus cause rain, which would create a favourable climate in the desert.

Lightning is a phenomenon of electric discharge, and its audible manifestation is thunder. The entire phenomenon is called thunder. Even today, scientists are busy trying to understand and explain certain phenomena in relation with the thunder-strike. Condensation processes in the atmosphere cause accumulation of electricity in clouds. The polarisation of charges within storm-clouds leads to an increase in electric potential between certain parts. results in electric discharge. Electric discharges can appear within the cloud, between two clouds or between the cloud and the ground. The latter is of interest to us, a giant short circuit between the sky and the ground.

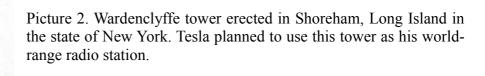
It was as early as 1750 that Benjamin Franklin discovered that electricity is not evenly distributed over all elements of the surface of conductors (all except the sphere), which depends on the extent of curvature of the observed element of surface. Generally speaking, higher charge density is located on their edges, protuberant and pointed parts than on round and flat ones. Statistically, thunder always strikes along the path which is more conductive, that is to say the path with a higher charge density. Franklin's experiments found that the pointier and more conductive the lightning rod, the easier it was to attract lightning during a strike. That is why the lightning rod point is made of a metal rod with a gilded tip.

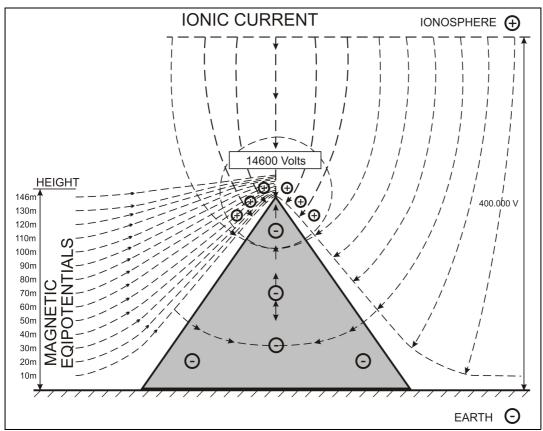
Benjamin Franklin invented the lightning rod – the technical solution to attract natural lightning from clouds, but Nikola Tesla wanted to make a device that would create lightning in cloudless desert areas and thus induce rainfall!

In the discharge tunnel of a natural lightning the temperature is about 30000°C, the electric charge reaches 40 MV, and the electric current 110 kA. It is estimated that the energy of an average lightning is about 40MWh.

The Wardenclyffe tower on Long Island designed by Tesla was supposed to use a transformer to create high voltage and instead of natural lightning, produce high energy ionic smouldering

discharge. Tesla envisioned an 8-sided pyramid with a semi-sphere on top as a basis for this device. Why?





Picture 3. The effect of Cheops pyramid on the density of electric and magnetic fields Earth - ionosphere

Nikola Tesla claimed that Earth is a spherical capacitor plate with the ionosphere as the other plate. Recent measurements have determined that the voltage difference between the Earth and the ionosphere is 400.000 volts. The force lines of the electric charge plus fields that come from the Sun, act vertically onto the sides of the pyramids. Magnetic equipotentials show a great density of the magnetic field at the top. The electric field voltage grows 100V/m in height. The Earth's minus field is the greatest and at its most dense at the very top of the pyramid. At the top of Cheops pyramid there is voltage of 14600 volts. The Cheops pyramid has its own electric capacity – ability to accumulate a certain amount of electric charge. If too much electric charge is brought to the Cheops pyramid, the excess of these charges discharges at the top of the pyramid. According to the word of mouth, the top of the Cheops pyramid was originally a pyramidon made of solid gold – an excellent conductor.

The voltage at the top of the structure depends solely on height. That is why Tesla built a tower, a tall-standing structure. Tesla chose an 8-sided pyramid —and it could have been a four-sided one, or infinite-sided — a cone. The voltage would have been the same in all cases. The symmetrical form of the structure increases its static stability and resistance to earthquakes.

Why did Tesla build a sphere, 21 m in diameter on top of a pyramidal tower? What was accomplished by doing that? The fact that the sphere is spike-less, the voltage on the sphere is evenly distributed over its entire surface. The voltage that would have discharged from the top of the pyramid was taken over by the sphere, thus increasing the total electric capacity of the whole tower. Instead of having the discharge take place on one point on the top of the pyramid, now it takes place in many points all over the surface of the sphere.

Conclusion: by adding the sphere to the top of the pyramid, the electric capacity of the device was increased, and this increased the possibility to create far stronger lightning.

The Tesla tower was designed to electrify the atmosphere in a split second and produce thunder and rainfall. To our great misfortune, the Tesla tower on Long Island was never completed. It was dismantled during the First World War, and Tesla never got the chance to experiment with artificial thunder and rain engineering in desert conditions.

NEGATIVE IONS

How do state-of-the-art air-conditioning devices work? They regulate air temperature and humidity and generate negative ions.

The influence of negative ions to human health has been known for about 60 years now, and there has been a great deal of scientific research. There are constant bio-chemical processes of oxidation and reduction taking place in the human body, which require negatively charged ions to function properly. All living things receive negatively charged ions from the air through the skin and respiration organs. When there are enough negative ions in a room, there is an increase in oxygen content in the blood, heart rate gets normalized and this accelerates the excretion of toxins. Due to better blood-flow in the brain, concentration and other mental capabilities strengthen, the consequences of stress get neutralized, tension and headaches are relieved. Negative ions bind with toxins in the body, which means they act as anti-oxidants, thus preventing the development of degenerative disease.

In nature the most favourable condition of air ionization is after thunderstorms, cloudburst and downpours, when atmospheric discharges occur. That is when there are noticeably more negative ions in the air than there are positive ones. Increased concentrations of negative oxygen ions are also found near waterfalls, in pine forests, mountains, along the sea shore and in caves, which led to speleotherapy(http://www.showcaves.com/english/explain/Misc/Speleotherapy.html).

PYRAMIDS – GENERATORS OF NEGATIVE IONS

What was the function of pyramids? To produce thunder? No, it wasn't. For thousands of years after having been built, pyramids have functioned and continue to function as generators of negative ions. In order for pyramids to continuously ionize the surrounding air, they needed to be connected to a permanent source of negative ions. How was this done? Where are these energy power lines which lead to the pyramids?

The Giza Plateau hides an abundance of underground water. Huge underground rivers flowing around the pyramids are full of negative ions and by piezoelectric effect they transpond them to the pyramid, which then accumulates them and the surplus discharges on the top. All the great pyramids were built from stone with high content of crystal capable of binding electric charges from water when underground water mechanically presses against the crystal. If we expose the crystal to mechanical deformation, bound electric charges appear on its surface. This phenomenon is called piezoelectric effect. The crystal is the converter of mechanical into electric energy. Due to continuous charging and discharging off the pyramid electrically

charged from underground rivers, the pyramid contracts and expands, which results in continuous micro-quakes.

OBELISKS, CHURCHES AND MOSQUES – IONIZERS

Obelisks function on totally identical principle. They are pillars made of crystalline stone, located over underground water, with a pyramidon made of gold, silver or copper on top of it. An obelisk is actually a miniature air ionizer.

The above mentioned principle has been applied on old churches (mosques) which were built using stone with high crystalline content, where the church tower was mostly made of copper, silver or gold. Almost all old churches (mosques) were located over underground water flows, a natural source of negative ions. A favourable negative ionization can be sensed even inside the church (mosque) itself.

STONE MEGALITHS - IONIZERS

Standing stone megaliths which we find all over the world are the most primitive form of air ionizers. They are made of crystal material and they are located above the underground water flows, but they do not have the pointed top made of conductive material and therefore they have less power of air ionization. This power deficiency was solved by making larger number of megaliths in some area, which increased the total power.

Bosnian standing stones also belong to that group – unique monumental stone blocks which are densely spread over the territory of Bosnia and Herzegovina, southern parts of Croatia, western Montenegro and southwestern Serbia. Standing stone blocks are a common national custom and as tomb stones they are a mark of the medieval culture in the mentioned regions.







Picture 4 and 5 Bosnian standing stone

Picture 6. Positioning and density of Bosnian standing stones

Dubravko Lovrenović, Ph.D., a member of the Committee for Preservation of National Monuments of Bosnia and Herzegovina, estimates that in Bosnia and Herzegovina alone there are over 100,000 Bosnian standing stones.

Although Bosnian standing stones are as a rule scattered and relocated, and barrows have been rebuilt many times, they are found in streaks. Almost without exceptions, the directions of streaks are south – north. It is estimated that the real number of stone blocks is much bigger than the number of registered Bosnian standing stone. Many of them were lost, destroyed, used for construction or simply were not found. **Stone blocks - monuments**, fractured in certain time and space, are a heritage and autochthonous treasury of an old civilization which has remained unknown to archeologists and historians.

TUNNELS AND PYRAMIDS

While Bosnian standing stone and obelisk exclusively have an outward effect, favorable ionization can be felt within the hollow spaces of church and pyramid.

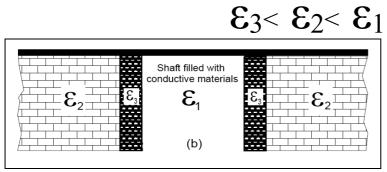
Apart from underground water, the pyramid uses an additional source of negative ions – natural cave. The Cheops pyramid has a cave, and pyramids which do not have a cave are connected by underground tunnels with a remote one. Underground tunnels around the pyramids present an "artificial cave" and spending time in them is very good for one's health.

Results of radar measurements on the Giza plateau by Egyptian geophysicists Abbas Mohamed Abbas, El-said A. El-Sayed, Fathy A. Shaaban and Tarek Abdel-Hafez were published in the Egyptian national geophysics magazine, special edition, PP 1-16, (2006), Learn more on: http://www.howtosurvive2012.com/pdf files/Pyramids.pdf

350 m southeast of the Cheops pyramid, they registered a signal of a potential tunnel, with dielectric values of underground structures which are presented in picture 7.

The electric capacity of a conductor which is located in the isolator of dielectric constant ε equals: $C = \varepsilon C_0$, where C_0 presents its capacity in vacuum.

The larger dielectric constant " ϵ " of the material, the larger the capacity of the capacitor. For vacuum $\epsilon = 1$, hydrogen $\epsilon = 1.2$, oxygen $\epsilon = 1.5$, silicone $\epsilon = 4.5$, limestone $\epsilon = 4.8$, water $\epsilon = 81$. The more moisture there is in the tunnel (ϵ 1), the more electric charges the air can accumulate. In order to prevent the limestone from taking all these negative charges from the Giza plateau (ϵ 2), the original constructors of the pyramid complex in Giza "isolated" the tunnel with stones (ϵ 3) built into the walls of the tunnel.



 ε_1 – relative dielectric constant of materials filling the shaft

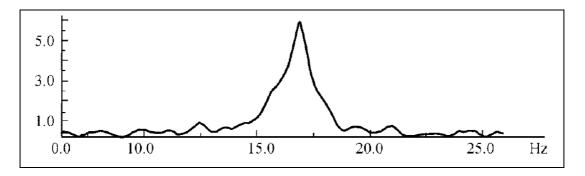
 ε_2 – relative dielectric constant of the pyramids plateau limestone

 ε_3 – relative dielectric constant of enforcement stones

Picture 7. The figure shows the possible presence of shafts in the studied areas

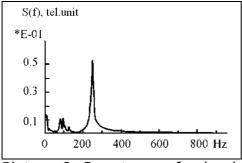
EGYPTIAN AND BOSNIAN PYRAMIDS - GIANT OSCILLATORS

Russian geophysicists O. B. Khavroshkin, Ph.D. and V.V. Tsyplakov, Ph.D. from the Moscow Schmidt Institute of Physics of the Earth have been analyzing micro-quakes on pyramids for many years. They have conducted measurements of seismic noises on about sixty Egyptian pyramids, and I personally met them in August of 2007 when they were doing measurements on Bosnian pyramids.

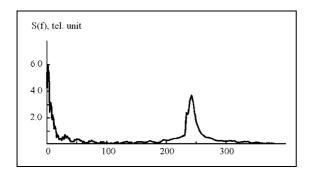


Picture 8. Spectrum of seismic noise from the foot of the south side of curved (Snofru) pyramid in Dahkshur region, Egypt

Many theories were developed on the reasons behind micro-quakes on pyramids. At the foot of the south side of Snofru's pyramid, they registered stronger harmonics of the micro-quake of 17 Hz. 17 Hz belongs in the infrasound range (0 Hz – 20 Hz) which cannot be heard by human ear. How can we explain the cause of this continuous micro-quake? Asuan hydro power plant is about 40 km away and it is hard to assume that the registered sub-harmonics (f_0 =50Hz/3=16.67Hz) comes from electrical generators. Is it possible that Snofru's pyramid is actually a radio station receiving a signal from pulsar PSR 1913+16 which has the frequency of 16.95 Hz?

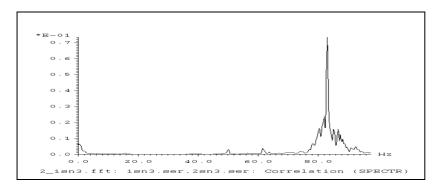


Picture 9. Spectrum of seismic noise from the Red pyramid (Dahkshur)

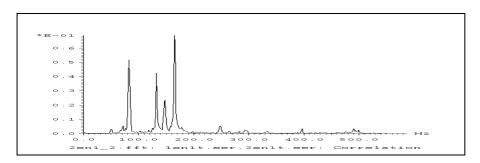


Picture 10. Spectrum of seismic noise from Menkaure's pyramid

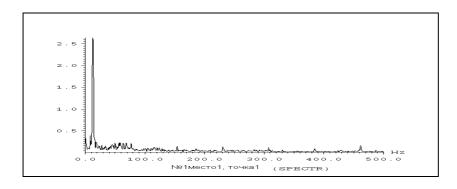
We can see that Egyptian pyramids are musical instruments tuned to different tone frequencies. In Bosnian pyramids we encounter the same phenomenon.



Picture 11. Spectrum of seismic noise from the foot of the Bosnian Pyramid of the Sun, f_0 =81Hz



Picture 12. Spectrum of seismic noise from the top of the Bosnian Pyramid of the Sun, f=83Hz, 132Hz, 147Hz and 165Hz



Picture 13. Spectrum of seismic noise at the foot of the Temple of the Earth, f=13Hz

AUTOMATIC REGULATION OF PYRAMIDS OPERATION

From the appended charts of the Russian geophysicists, we can see that every pyramid shaped structure has different frequency characteristics. It is completely logical, because there are no two pyramids of the same dimensions, construction material, or underground structure. It is clear that every pyramid concentrates seismic waves using one or more resonant frequencies. Depending on atmospheric electricity, the pyramid changes the amount of negative electric charges which it draws from underground waters and tunnels, releasing them into the atmosphere, and due to the piezoelectric effect, the amplitudes and frequencies of microquakes are slightly changed as well.

Electric current will start to flow between two differently charged elements, the power of which depends on the difference of their potential. The larger the voltage, the stronger the current. The lower the voltage, the weaker the current. The sunnier it is, the air is richer in positive charges and then the pyramid draws more negative ions from the underground waters and tunnels in order to neutralize the positive charges in the atmosphere. After the rain, the air in the atmosphere is poorer in positive ions and then the pyramid loses the power of generating negative ions.

Conclusion

Nikola Tesla didn't finish his electrical tower at Long Island, which purpose was production of lightning strikes and thus cause rain. It was an attempt to develope rain engineering technology to combat desertification. The U.S.A. government banned this Tesla's experiment because they were afraid of Japanese spies during the First World War. Many other Tesla inventions remained unfinished also.

After 92 years, we remember Tesla tower, pyramidal in shape with the sphere at the top. Tesla was at the beginning stage of research of technology that maybe had been already developed and used by ancient constructors of Bosnian Pyramids and Bosnian stone balls.

The heritage science of forgotten genius Nikola Tesla could inspire researchers of Bosnian Valley of Pyramids to implement this Tesla's idea in solving the mistery of the pyramids worldwide

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