

NIKOLA TESLA – Everything is the Light – Interview with Nikola Tesla

<http://369news.net/nikola-tesla-everything-is-the-light-interview-with-nikola-tesla/>

Reference: True interview that scientist Nikola Tesla gave for magazine "Immortality" in his laboratory in Colorado Springs.

Once, in 1899, Nikola Tesla had an interview with a certain journalist John Smith, when Tesla said "Everything is the Light". In one of its rays is the fate of nations, each nation has its own ray in that great light source, which we see as the Sun. In this interview this greatest inventor and seer of modern time unravels a new vision of humanity which we, the light warriors of the first and the last hour have created a century later. A must read for every Ascended Master from the PAT.

Part of this interview is dedicated to Tesla's critics on Einstein's theory of relativity that discards the ether is energy. I have proved in the new Theory of the Universal Law why Einstein's theory of relativity is entirely wrong and why there is no vacuum (void), and that everything is energy. Thus I confirm Tesla's ideas as expressed in this interview.

The Interview:

Journalist: Mr. Tesla, you have gained the glory of the man who got involved in the cosmic processes.

Who are you, Mr. Tesla?

Tesla: It is a right question, Mr. Smith, and I will try to give you the right answer to it.

Journalist: Some say you're from the country of Croatia, from the area called Lika, where together with the people are growing trees, rocks and starry sky. They say that your home village is named after the mountain flowers, and that the house, where you were born, is next to the forest and the church.

Tesla: Really, all is true. I'm proud of my Serbian origin and my Croatian homeland.

Journalist: Futurists say that the Twenty-and Twenty First Century was born in head of Nikola Tesla. They celebrate conversely magnetic field and sing hymns to Inductions engine. Their creator was called the hunter who caught the light in his net from the depths of the earth, and the warrior who captured fire from heaven. Father of alternating current will make the Physics and Chemistry dominate half the world. Industry will proclaim him as their supreme saint, a banker for the largest benefactors. In the laboratory of Nikola Tesla for the first time is broken atom.

There is created a weapon that causes the earthquake vibrations. There are discovered black cosmic rays. Five races will pray to him in the Temple of the future, because they had taught a great secret that Empedocles elements can be watered with the life forces from the ethers.

Tesla: Yes, these are some of my most important discoveries. I'm a defeated man. I have not accomplished the greatest thing I could.

Journalist: What is it, Mr. Tesla?

Tesla: I wanted to illuminate the whole earth. There is enough electricity to become a second sun. Light would appear around the equator, as a ring around Saturn.

Mankind is not ready for the great and good. In Colorado Springs I soaked the earth by electricity. Also we can water the other energies, such as positive mental energy. They are in the music of Bach or Mozart, or in the verses of great poets. In the Earth's interior, there are energy of Joy, Peace and Love. Their expressions are a flower that grows from the Earth, the food we get out of her and everything that makes man's

homeland. I've spent years looking for the way that this energy could influence people. The beauty and the scent of roses can be used as a medicine and the sun rays as a food.

Journalist: What are these things?

Tesla: One issue is food. What a stellar or terrestrial energy to feed the hungry on Earth? With what wine watered all thirsty, so that they can cheer in their heart and understand that they are Gods?

Another thing is to destroy the power of evil and suffering in which man's life passes! They sometimes occur as an epidemic in the depths of space. In this century, the disease had spread from Earth in the Universe.

The third thing is: Is there an excess Light in the Universe? I discovered a star that by all the astronomical and mathematical laws could disappear, and that nothing seems to be modified. This star is in this galaxy. Its light can occur in such density that fits into a sphere smaller than an apple, a heavier than our Solar System. Religions and philosophies teach that man can become the Christ, Buddha and Zoroaster. What I'm trying to prove is wilder, and almost unattainable. This is what to do in the Universe so every being is born as Christ, Buddha or Zoroaster.

I know that gravity is prone to everything you need to fly and my intention is not to make flying devices (aircraft or missiles), but teach individual to regain consciousness on his own wings ... Further; I am trying to awake the energy contained in the air. There are the main sources of energy. What is considered as empty space is just a manifestation of matter that is not awakened.

No empty space on this planet, nor in the Universe.. In black holes, what astronomers talk about, are the most powerful sources of energy and life.

Journalist: On the window of your room in hotel "Valdorf-Astoria", on the thirty-third floor, every morning, the birds arrive.

Tesla: A man must be sentimental towards the birds. This is because of their wings. Human had them once, the real and visible!

Journalist: You have not stopped flying since those distant days in Smiljan!

Tesla: I wanted to fly from the roof and I fell: Children's calculations could be wrong. Remember, the youth wings have everything in life!

Journalist: Have you ever married? It is not known that you have affection for love or for a woman. Photos from the youth show you were handsome man.

Tesla: Yes. I did not. There are two views: a lot affection or not at all. The center serves to rejuvenate human race. Women for certain people nurtures and strengthen its vitality and spirit. Being single does the same to other people. I chose that second path.

Journalist: Your admirers are complaining that you attacking relativity. The strange is your assertion that the matter has no energy. Everything is imbued with energy, where it is?

Tesla: First was energy, then matter.

Journalist: Mr. Tesla, it's like when you said that you were born by your father, and not on you.

Tesla: Exactly! What about the birth of the Universe? Matter is created from the original and eternal energy that we know as Light .It shone, and there have been appear star, the planets, man, and everything on the Earth and in the Universe. Matter is an expression of infinite forms of Light, because energy is older than it. There are four laws of Creation. The first is that the source of all the baffling, dark plot that the mind cannot conceive, or mathematics measure. In that plot fit the whole Universe.

The second law is spreading a darkness, which is the true nature of Light, from the inexplicable and it's transformed into the Light. The third law is the necessity of the Light to become a matter of Light. The fourth law is: no

beginning and no end; three previous laws always take place and the Creation is eternal.

Journalist: In the hostility to the theory of relativity you go so far, that you hold lectures against its Creator at your birthday parties..

Tesla: Remember, it is not curved space, but the human mind which cannot comprehend infinity and eternity! If relativity has been clearly understood by its Creator, he would gain immortality, even yet physically, if he is pleased. I am part of a light, and it is the music. The Light fills my six senses: I see it, hear, feel, smell, touch and think. Thinking of it means my sixth sense. Particles of Light are written note. O bolt of lightning can be an entire sonata. A thousand balls of lightning is a concert.. For this concert I have created a Ball Lightning, which can be heard on the icy peaks of the Himalayas. About Pythagoras and mathematics a scientist may not and must not infringe of these two. Numbers and equations are signs that mark the music of the spheres. If Einstein had heard these sounds, he would not create theories of relativity. These sounds are the messages to the mind that life has meaning, that the Universe exists in perfect harmony, and its beauty is the cause and effect of Creation. This music is the eternal cycle of stellar heavens. The smallest star has completed composition and also, part of the celestial symphony. The man's heartbeats are part of the symphony on the Earth. Newton learned that the secret is in geometric arrangement and motion of celestial bodies. He recognized that the supreme law of harmony exists in the Universe. The curved space is chaos, chaos is not music. Einstein is the messenger of the time of sound and fury.

Journalist: Mr. Tesla, do you hear that music?

Tesla: I hear it all the time. My spiritual ear is as big as the sky we see above us. My natural ear I increased by the radar. According to the Theory of Relativity, two parallel lines will meet in infinity. By that Einstein's curved will straighten. Once created, the sound lasts forever. For a man it can vanish, but continues to exist in the silence that is man's greatest power.

No, I have nothing against Mr. Einstein. He is a kind person and has done many good things, some of which will become part of the music. I will write to him and try to explain that the ether exists, and that its particles are what keep the Universe in harmony, and the life in eternity.

Journalist: Tell me, please, under what conditions Angels adapt on the Earth?

Tesla: I have ten of them. Keep good records vigilant.

Journalist: I will document all your words, Dear Mr. Tesla.

Tesla: The first requirement is a high awareness of its mission and work to be done. It must, if only dimly, exist in the early days. Let us not be falsely modest; Oak knows that it is oak tree, a bush beside him being a bush. When I was twelve, I have been sure I will get to Niagara Falls. For most of my discoveries I knew in my childhood that I will achieve them, although not entirely apparent ... The second condition to adapt is determination. All that I might, I finished.

Journalist: What is the third condition of adjustment, Mr. Tesla?

Tesla: Guidance for all the vital and spiritual energies in labor. Therefore purification of the many effects and needs that man has. I therefore have not lost anything, but just gained.

So I enjoyed every day and night. Write down: Nikola Tesla was a happy man... The fourth requirement is to adjust the physical assembly with a work.

Journalist: What do you mean, Mr. Tesla?

Tesla: First, the maintenance of the assembly. Man's body is a perfect machine. I know my circuit and what's good for him. Food what nearly all

people eat, to me it is harmful and dangerous. Sometimes I visualize that chefs in the world are all in conspiracy against me ... Touch my hand.

Journalist: It was cold.

Tesla: Yes. Bloodstream can be controlled, and many processes in and around us. Why are you frightened young man?

Journalist: It's a story that Mark Twain wrote a mysterious stranger, that wonderful book of Satan, inspired by you.

Tesla: The word "Lucifer" is more charming. Mr. Twain likes to joke. As a child I was healed once by reading his books. When we met here and told him about, he was so touched that he cried. We became friends and he often came to my lab. Once he requested to show him a machine that by vibration provokes a feeling of bliss. It was one of those inventions for entertainment, what I sometimes like to do.

I warned Mr. Twain as not to remain under these vibrations. He did not listen and stayed longer. It ended by being, like a rocket, holding pants, darted into a certain room. It was a diabolically funny, but I kept the seriousness.

But, to adjust the physical circuit, in addition to food, dream is very important . From a long and exhausting work, which required superhuman effort, after one hour of sleep I'd be fully recovered. I gained the ability to manage sleep, to fell asleep and wake up in the time which I have designated. If I do something what I do not understand, I force myself to think about it in my dream, and thus find a solution.

Tesla: The fifth condition of adjustment is memory. Perhaps in the most people, the brain is keeper of knowledge about the world and the knowledge gained through the life. My brain is engaged in more important things than remembering, it is picking what is required at a given moment. This is all around us. It should only be consumed. Everything that we once saw, hear, read and learn, accompanies us in the form of light particles. To me, these particles are obedient and faithful.

Goethe's Faust, my favorite book, I learned by heart in German as a student, and now it can all recite. I held my inventions for years 'in my head ', and only then I realized them.

Journalist: You often mentioned the power of visualization.

Tesla: I might have to thank to visualization for all that I invented. The events of my life and my inventions are real in front of my eyes, visible as each occurrence or the item. In my youth I was frightened of not knowing what it is, but later, I learned to use this power as an exceptional talent and gift. I nurtured it, and jealously guarded. I also made corrections by visualization on most of my inventions, and finish them that way, by visualization I mentally solve complex mathematical equations. For that gift I have, I will receive rank High Lama in Tibet.

My eyesight and hearing are perfect and, dare to say, stronger than other people. I hear the thunder of a hundred fifty miles away, and I see colors in the sky that others cannot see. This enlargement of vision and hearing, I had as a child. Later I consciously developed.

Journalist: In youth you have several times been seriously ill. Is it a disease and a requirement to adapt?

Tesla: Yes. It is often the result of a lack of exhaustion or vital force, but often the purification of mind and body from the toxins that have accumulated. It is necessary that a man suffers from time to time. The source of most disease is in the spirit. Therefore the spirit and can cure most diseases. As a student I got sick of cholera which raged in the region of Lika. I was cured because my father finally allowed me to study technology, which was my life. Illusion for me was not a disease, but the mind's ability to penetrate beyond the three dimensions of the earth.

I had them all my life, and I have received them as all other phenomena around us. Once, in childhood, I was walking along the river with Uncle and said: "From the water will appear the trout, I'll throw a stone and it is cut." That's what happened. Frightened and amazed, his uncle cried: "Bade retro Satan's!" He was an educated and he spoke in Latin ...

I was in Paris when I saw my mother's death. In the sky, full of light and music floated are wonderful creatures. One of them had a mother's character, who was looking at me with infinite love. As the vision disappeared, I knew that my mother died.

Journalist: What is the seventh adjustment, Mr. Tesla?

Tesla: The knowledge of how the mental and vital energy transform into what we want, and achieve control over all feelings. Hindus call it Kundalini Yoga. This knowledge can be learned, for what they need many years or is acquired by birth. The most of them I acquired by birth. They are in the closest connection with a sexual energy that is after the most widespread in the Universe. The woman is the biggest thief of that energy, and thus the spiritual power.

I've always knew that and was alerted. Of myself I created what I wanted: a thoughtful and spiritual machine.

Journalist: A ninth adjustment, Mr. Tesla?

Tesla: Do everything that any day, any moment, if possible, not to forget who we are and why we are on Earth. Extraordinary people who are struggling with illness, privation, or the society which hurts them with its stupidity, misunderstanding, persecution and other problems which the country is full of a swamps with insects, leaves behind unclaimed until the end of the work. There are many fallen angels on Earth.

Journalist: What is the tenth adaptation?

Tesla: It is most important. Write that Mr. Tesla played. He played the whole of his life and enjoyed it.

Journalist: Mr. Tesla! Whether it relates to your findings and your work? Is this a game?

Tesla: Yes, dear boy. I have so loved to play with electricity! I always cringe when I hear about the one also the Greek who stole fire. A terrible story about studding, and eagles peck at his liver. Did Zeus did not have enough lightning and thunder, and was damaged for one fervor? There is some misunderstanding...

Lightning are the most beautiful toys that can be found. Do not forget that in your text stand out: Nikola Tesla was the first man who discovered lightning.

Journalist: Mr. Tesla, you're just talking about angels and their adaptation to the Earth.

Tesla: Am I? This is the same. You could write this: he dared to take upon himself the prerogatives of Indri, Zeus and Peron. Imagine one of these gods in a black evening suit, with the bowler hat and wearing white cotton gloves prepares lightning, fires and earthquakes to the New York City elite!

Journalist: Readers love the humor of our paper. But you confuse me stating that your findings, which have immense benefits for the people, representing the game. Many will frown on it.

Tesla: Dear Mr. Smith, the trouble is that people are too serious. If they were not, they would be happier and much longer would have lived. Chinese proverb says that the seriousness reduces life. Visiting the inn Tai Pe guessed that he visits the Imperial Palace. But that the newspaper readers would not have frowned, let's get back to things which they consider important.

Journalist: They would love to hear what your philosophy is.

Tesla: Life is a rhythm that must be comprehended. I feel the rhythm and direct on it and pamper in it. It was very grateful and gave me the knowledge I have. Everything that lives is related to a deep and wonderful relationship: man and the stars, amoebas' and the sun, the heart and the circulation of an infinite number of worlds. These ties are unbreakable, but they can be tame and to propitiate and begin to create new and different relationships in the world, and that does not violate the old.

Knowledge comes from space; our vision is its most perfect set. We have two eyes: the earthly and spiritual. It is recommended that it become one eye. Universe is alive in all its manifestations, like a thinking animal.

Stone is a thinking and sentient being, such as plant, beast and a man. A star that shines asked to look at, and if we are not a sizeable self-absorbed we would understand its language and message. His breathing, his eyes and ears of the man must comply with breathing, eyes and ears of the Universe.

Journalist: As you say this, it seems to me like I hear Buddhist texts, words or Taoist Parazul Usa.

Tesla: That's right! This means that there is general knowledge and truth that man has always possessed. In my feeling and experience, the Universe has only one substance and one supreme energy with an infinite number of manifestations of life. The best thing is that the discovery of a secret nature, reveals the other.

One cannot hide, there are around us, but we are blind and deaf to them. If we emotionally tie ourselves to them, they come to us themselves. There are a lot of apples, but one Newton. He asked for just one apple that fell in front of him.

Journalist: A question that might be set at the beginning of this conversation. What was Electricity for you, Dear Mr. Tesla?

Tesla: Everything is Electricity. First was the light, endless source from which points out material and distribute it in all forms that represent the Universe and the Earth with all its aspects of life. Black is the true face of Light, only we do not see this. It is remarkable grace to man and other creatures. One of its particles possesses light, thermal, nuclear, radiation, chemical, mechanical and an unidentified energy.

It has the power to run the Earth with its orbit. It is true Archimedean lever.

Journalist: Mr. Tesla, you're too biased towards electricity.

Tesla: Electricity I am. Or, if you wish, I am the electricity in the human form. You are Electricity; too Mr. Smith, but you do not realize it.

Journalist: Is it thus your ability to allow fails of electricity of one million volts trough your body?

Tesla: Imagine a gardener who is attacked by herbs. This would indeed be crazy. Man's body and brain are made from a large amount energy; in me there is the majority of electricity. The energy that is different in everyone is what makes the human "I" or "soul". For other creatures to their essence, "soul" of the plant is the "soul" of minerals and animals.

Brain function and death is manifested in light. My eyes in youth were black, now blue, and as time goes on and strain the brain gets stronger, they are closer to white. White is the color of heaven. Through my window one morning, landed a white dove, which I fed. She wanted to bring me a word that she was dying. From her eyes the light jets were coming out. Never in the eyes of any creature had I not seen so much light, as in that pigeon.

Journalist: Personnel in your lab speak about flashes of light, flames and lightning that occur if you are angry or into kind of risk.

Tesla: It is the psychic discharge or a warning to be alert. The light was always on my side. Do you know how I discovered the rotating magnetic field and induction motor, which made me become famous when I was twenty-six? One summer evening in Budapest, I watched with my friend Sigeti Jem sunset. Thousands of fire was turning around in thousands of flaming colors. I remembered Faust and recited his verses and then, as in a fog, I saw spinning magnetic field, and induction motor. I saw them in the sun!

Journalist: Hotel service telling that at the time of lightning you isolate into the room and talk to yourselves.

Tesla: I talk with lightning and thunder.

Journalist: With them? What language, Mr. Tesla?

Tesla: Mostly my native language. It has the words and sounds, especially in poetry, what is suitable for it.

Journalist: Readers of our magazine would be very grateful if you would interpret that.

Tesla: The sound does not exist only in the thunder and lightning, but, in transformation into the brightness and color. A color can be heard. Language is of the words, which means that it is from the sounds and colors. Every thunder and lightning are different and have their names. I call some of them by the names of those who were close in my life, or by those whom I admire. In the sky brightness and thunder live my mother, sister, brother Daniel, a poet Jovan Jovanovic Zmaj and other persons of Serbian history. Names such as Isaiah, Ezekiel, Leonardo, Beethoven, Goya, Faraday, Pushkin and all burning fires mark shoals and tangles of lightning and thunder, which does not stop all night bringing to the Earth precious rain and burning trees or villages.

There is lightning and thunder, and they are the brightest and most powerful, that will not vanish. They are coming back and I recognize them among the thousands.

Journalist: For you, science or poetry is the same?

Tesla: These are the two eyes of one person. William Blake was taught that the Universe was born from the imagination, that it maintains and it will exist as long as there is a last man on the Earth. With it was a wheel to which astronomers can collect the stars of all galaxies. It is the creative energy identical to the light energy.

Journalist: Imagination is more real to you than life itself?

Tesla: It gives birth to the life. I have fed by my taught; I've learned to control emotions, dreams and visions. I have always cherished, as I nurtured my enthusiasm. All my long life I spent in ecstasy. That was the source of my happiness. It helped me during all these years to bear with work, which was enough for the five lives. The best is to work at night, because the stellar light, and close bond.

Journalist: You said that I am, like every being, the Light. This flatter me, but I confess, I do not quite understand.

Tesla: Why would you need to understand, Mr. Smith? Suffice it to believe it. Everything is light. In one its ray is the fate of nations, each nation has its own ray in what great light source we see as the sun. And remember: no one who was there did not die. They transformed into the light, and as such exist still. The secret lies in the fact that the light particles restore their original state.

Journalist: This is the resurrection!

Tesla: I prefer to call it: return to a previous energy. Christ and several others knew the secret. I am searching how to preserve human energy. It is forms of Light, sometimes straight like heavenly light. I have not looked for it for my own sake, but for the good of all. I believe that my discoveries make people's lives easier and more bearable, and channel them to spirituality and morality.

Journalist: Do you think that time can be abolished?

Tesla: Not quite, because the first feature of the energy is that it transforms. It is in perpetual transformation, as clouds of Taoists. But it is possible to leverage the fact that a man preserves consciousness after the earthly life. In every corner of the universe exist energy of life; one of them is immortality, whose origin is outside of man, waiting for him.

The universe is spiritual; we are only half that way. The Universe is more moral than us, because we do not know his nature and how to harmonize our lives with it. I am not scientist, science is perhaps the most convenient way to find the answer to the question that always haunt me, and which my days and nights turned into fire.

Journalist: What's the matter?

Tesla: How are your eyes brightened!... What I wanted to know is: what happens to a falling star as the sun goes out? Stars fall like dust or seed in this or in other worlds, and the sun be scattered in our minds, in the lives of many beings, what will be reborn as a new light, or cosmic wind scattered in infinity. I understand that this is necessary included in the structure of the Universe. The thing is, though, is that one of these stars and one of these suns, even the smallest, preserves.

Journalist: But, Mr. Tesla, you realize that this is necessary and is included in the constitution of the world!

Tesla: When a man becomes concuss; that his highest goal must be to run for a shooting star, and tries to capture it; shall understand that his life was given to him because of this and will be saved. Stars will eventually be capable to catch!

Journalist: And what will happen then?

Tesla: The creator will laugh and say: "It fall only that you chase her and grab her."

Journalist: Isn't all of this contrary to the cosmic pain, which so often you mention in your writings? And what is it cosmic pain?

Tesla: No, because we are on Earth ... It is an illness whose existence the vast majority of people are not aware of. Hence, many other illnesses, suffering, evil, misery, wars and everything else what makes human life an absurd and horrible condition. This disease cannot be completely cured, but awareness shall make it less complicated and hazardous. Whenever one of my close and dear people were hurt, I felt physical pain. This is because our bodies are made as of similar material, and our soul related with unbreakable strands. Incomprehensible sadness that overwhelmed us at times means that somewhere, on the other side on this planet, a child or generous man died.

The entire Universe is in certain periods sick of itself, and of us. Disappearance of a star and the appearance of comets affect us more than we can imagine. Relationships among the creatures on the Earth are even stronger, because of our feelings and thoughts the flower will scent even more beautiful or will fall in silence.

These truths we must learn in order to be healed. Remedy is in our hearts and evenly, in the heart of the animals that we call the Universe.

Read also Nicola Tesla's second interview from 1915 here in original:

Source: www.teslauniverse.com/sites/default/files/article_files/19150600-01.pdf

Early years of Nikola Tesla

<http://electrical-engineering-portal.com/early-years-of-nikola-tesla>

Nikola Tesla was born “at the stroke of midnight” with lightning striking during a summer storm. He was born in Croatia in the Austro-Hungarian Empire. The midwife commented, “He’ll be a child of the storm,” to which his mother replied, “No, of light.” Tesla was baptized in the Old Slavonic Church rite.

His Baptism Certificate reports that he was born on June 28 (Julian calendar), and christened by the Serbian priest, Toma Oklobdžija. His Serb father, Reverend Milutin Tesla, was a priest in the Orthodox Metropolitanate of Karlovci which gathered to Serbs of the “Greek-rite” as they were legally referred to in Austria-Hungary at the time.

The Fall from Grace

<http://www.biography.com/people/nikola-tesla-9504443#death-and-legacy>

Having become obsessed with the wireless transmission of energy, around 1900 Nikola set to work on his boldest project yet: to build a global, wireless communication system—to be transmitted through a large electrical tower—for sharing information and providing free electricity throughout the world. With funding from a group of investors that included financial giant J. P. Morgan, in 1901 Tesla began work on the project in earnest, designing and building a lab with a power plant and a massive transmission tower on a site on Long Island, New York, that became known as Wardenclyffe.

However, when doubts arose among his investors about the plausibility of Tesla's system and his rival, Guglielmo Marconi—with the financial support of Andrew Carnegie and Thomas Edison—continued to make great advances with his own radio technologies, Tesla had no choice but to abandon the project.

Nikola Tesla

https://en.wikipedia.org/wiki/Nikola_Tesla

Nikola Tesla (Serbian Cyrillic: Никола Тесла; 10 July 1856 – 7 January 1943) was a Serbian American inventor, electrical engineer, mechanical engineer, physicist, and futurist best known for his contributions to the design of the modern alternating current (AC) electricity supply system.

Tesla gained experience in telephony and electrical engineering before emigrating to the United States in 1884 to work for Thomas Edison in New York City. He soon struck out on his own with financial backers, setting up laboratories and companies to develop a range of electrical devices. His patented AC induction motor and transformer were licensed by George Westinghouse, who also hired Tesla for a short time as a consultant. His work in the formative years of electric power development was involved in a corporate alternating current/direct current "War of Currents" as well as various patent battles.

Tesla went on to pursue his ideas of wireless lighting and electricity distribution in his high-voltage, high-frequency power experiments in New York and Colorado Springs, and made early (1893) pronouncements on the possibility of wireless communication with his devices. He tried to put these ideas to practical use in an ill-fated attempt at intercontinental wireless transmission, his unfinished Wardenclyffe Tower project.

In his lab he also conducted a range of experiments with mechanical oscillators/generators, electrical discharge tubes, and early X-ray imaging. He also built a wireless controlled boat, one of the first ever exhibited. (a drone) Tesla was renowned for his achievements and showmanship, eventually earning him a reputation in popular culture as an archetypal "mad scientist". His patents earned him a considerable amount of money, much of which was used to finance his own projects with varying degrees of success. He lived most of his life in a series of New York hotels, through his retirement. Tesla died on 7 January 1943. His work fell into relative obscurity after his death, but in 1960 the General Conference on Weights and Measures named the SI unit of magnetic flux density the tesla in his honor. There has been a resurgence in popular interest in Tesla since the 1990s.

Early years (1856–1885)

Tesla was born on 10 July, 1856 (Gc) [His baptismal record for birth reads: Saturday, 28 June, 1856, Jc] into a Serb family in the village of Smiljan, Austrian Empire (modern-day Croatia). His father, Milutin Tesla, was a Serbian Orthodox priest. Tesla's mother, Đuka Tesla (*née* Mandić), whose father was also an Orthodox priest, had a talent for making home craft tools, mechanical appliances, and the ability to memorize Serbian epic poems. Đuka had never received a formal education. Nikola credited his eidetic memory and creative abilities to his mother's genetics and influence.

Tesla was the fourth of five children. He had an older brother named Dane and three sisters, Milka, Angelina and Marica. Dane was killed in a horse-riding accident when Nikola was five. In 1861, Tesla attended the "Lower" or "Primary" School in Smiljan where he studied German, arithmetic, and religion. In 1862, the Tesla family moved to Gospić, Austrian Empire, where Tesla's father worked as a pastor. Nikola completed "Lower" or "Primary" School, followed by the "Lower Real Gymnasium" or "Normal School."

In 1870, Tesla moved to Karlovac, to attend school at the Higher Real Gymnasium, where he was profoundly influenced by a math teacher Martin Sekulić. The classes were held in German, as it was a school within the Austro-Hungarian Military Frontier. Tesla was able to perform integral calculus in his head, which prompted his teachers to believe that he was cheating. He finished a four-year term in three years, graduating in 1873.

In 1873, Tesla returned to his birthtown, Smiljan. Shortly after he arrived, Tesla contracted cholera; he was bedridden for nine months and was near death multiple times. Tesla's father, in a moment of despair, promised to send him to the best engineering school if he recovered from the illness (his father had originally wanted him to enter the priesthood).

The primary symptoms of cholera are profuse diarrhea and vomiting of clear fluid. These symptoms usually start suddenly, half a day to five days after ingestion of the bacteria. The diarrhea is frequently described as "rice water" in nature and may have a fishy odor. An untreated person with cholera may produce 10 to 20 litres (3 to 5 US gal) of diarrhea a day. Severe cholera, without treatment, kills about half of affected individuals. If the severe diarrhea is not treated, it can result in life-threatening dehydration and electrolyte imbalances. Cholera has been nicknamed the "blue death" because a person's skin may turn bluish-gray from extreme loss of fluids.

Fever is rare and should raise suspicion for secondary infection. Patients can be lethargic, and might have sunken eyes, dry mouth, cold clammy skin, decreased skin turgor, or wrinkled hands and feet. Kussmaul breathing, a deep and labored breathing pattern, can occur. Blood pressure drops due to dehydration, peripheral pulse is rapid and thready, and urine output decreases with time. Muscle cramping and

weakness, altered consciousness, seizures, or even coma due to electrolyte losses and ion shifts are common, especially in children.

In 1874, Tesla evaded being drafted into the Austro-Hungarian Army in Smiljan by running away to Tomingaj, near Gračac. There, he explored the mountains in hunter's garb. Tesla said that this contact with nature made him stronger, both physically and mentally. He read many books while in Tomingaj, and later said that Mark Twain's works had helped him to miraculously recover from his earlier illness.

In 1875, Tesla enrolled at Austrian Polytechnic in Graz, Austria, on a Military Frontier scholarship. During his first year, Tesla never missed a lecture, earned the highest grades possible, passed nine exams (nearly twice as many as required, started a Serbian culture club,^[28] and even received a letter of commendation from the dean of the technical faculty to his father, which stated, "Your son is a star of first rank." Tesla claimed that he worked from 3 a.m. to 11 p.m., no Sundays or holidays excepted. He was "mortified when [his] father made light of [those] hard won honors." After his father's death in 1879,^[32] Tesla found a package of letters from his professors to his father, warning that unless he were removed from the school, Tesla would be killed through overwork. During his second year, Tesla came into conflict with Professor Poeschl over the Gramme dynamo, when Tesla suggested that commutators weren't necessary. At the end of his second year, Tesla lost his scholarship and **became addicted to gambling.** During his third year, Tesla gambled away his allowance and his tuition money, later gambling back his initial losses and returning the balance to his family. Tesla said that he "conquered [his] passion then and there," but later he was known to play billiards in the US. When exam time came, Tesla was unprepared and asked for an extension to study, but was denied. **He never graduated from the university and did not receive grades for the last semester.**

In December 1878, Tesla left Graz and severed all relations with his family to hide the fact that he dropped out of school. His friends thought that he had drowned in the Mur River. Tesla went to Maribor (now in Slovenia), where he worked as a draftsman for 60 florins a month. In March 1879, Milutin Tesla went to Maribor to beg his son to return home, but Nikola refused. Nikola suffered a nervous breakdown at around the same time.

On 24 March 1879, Tesla was returned to Gospić under police guard for not having a residence permit. On 17 April 1879, Milutin Tesla died at the age of 60 after contracting an unspecified illness (although some sources say that he died of a stroke). During that year, Tesla taught a large class of students in his old school, Higher Real Gymnasium, in Gospić.

In January 1880, two of Tesla's uncles put together enough money to help him leave Gospić for Prague where he was to study. Unfortunately, he arrived too late to enroll at Charles-Ferdinand University; he never studied Greek, a required subject; and he was illiterate in Czech, another required subject. Tesla did, however, attend lectures at the university, although, as an auditor, he did not receive grades for the courses.

In 1881, Tesla moved to Budapest to work under Ferenc Puskás at a telegraph company, the Budapest Telephone Exchange. Upon arrival, Tesla realized that the company, then under construction, was not functional, so he worked as a draftsman in the Central Telegraph Office instead. Within a few months, the Budapest Telephone Exchange became functional and Tesla was allocated the chief electrician position. During his employment, Tesla made many improvements to the Central Station equipment and claimed to have perfected a telephone repeater or amplifier, which was never patented nor publicly described.

Working for Edison

In 1882, Tesla began working for the Continental Edison Company in France, designing and making improvements to electrical equipment. In June 1884, he relocated to New York City where he was hired by Thomas Edison to work at his Edison Machine Works on Manhattan's lower east side. Tesla's work for Edison began with simple electrical engineering and quickly progressed to solving more difficult problems.

Tesla was offered the task of completely redesigning the Edison Company's direct current generators. In 1885, he said that he could redesign Edison's inefficient motor and generators, making an improvement in both service and economy. According to Tesla, Edison remarked, "There's fifty thousand dollars in it for you—if you can do it." This has been noted as an odd statement from an Edison whose company was stingy with pay and who did not have that sort of cash on hand. After months of work, Tesla fulfilled the task and inquired about payment. Edison, saying that he was only joking, replied, "Tesla, you don't understand our American humor." Instead, Edison offered a US\$10 a week raise over Tesla's US\$18 per week salary; Tesla refused the offer and immediately resigned.

Middle years (1886–1899)[edit]

After leaving Edison's company Tesla partnered with two businessmen in 1886, Robert Lane and Benjamin Vail, who agreed to finance an electric lighting company in Tesla's name, Tesla Electric Light & Manufacturing. The company installed electrical arc light based illumination systems designed by Tesla and also had designs for dynamo electric machine commutators, the first patents issued to Tesla in the US.

The investors showed little interest in Tesla's ideas for new types of motors and electrical transmission equipment and also seemed to think it was better to develop an electrical utility than invent new systems. They eventually forced Tesla out leaving him penniless. He even lost control of the patents he had generated since he had assigned them to the company in lieu of stock. He had to work at various electrical repair jobs and even as a ditch digger for \$2 per day. Tesla considered the winter of 1886/1887 as a time of "terrible headaches and bitter tears." During this time, he questioned the value of his education.

AC and the induction motor

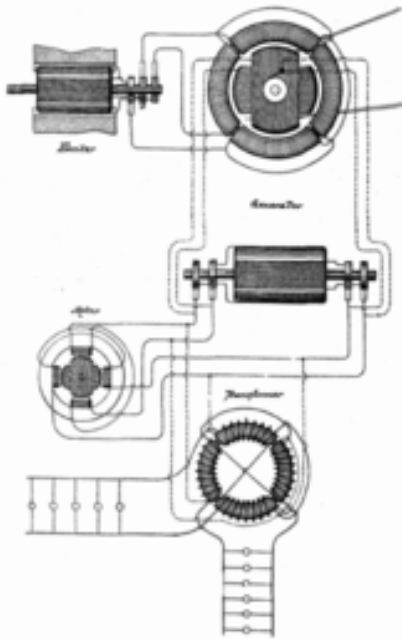
In late 1886 Tesla met Alfred S. Brown, a Western Union superintendent, and New York attorney Charles F. Peck. The two men were experienced in setting up companies and promoting inventions and patents for financial gain. Based on Tesla's patents and other ideas they agreed to back him financially and handle his patents. Together in April 1887 they formed the Tesla Electric Company with an agreement that profits from generated patents would go $\frac{1}{3}$ to Tesla, $\frac{1}{3}$ to Peck and Brown, and $\frac{1}{3}$ to fund development. They set up a laboratory for Tesla at 89 Liberty Street in Manhattan where he worked on improving and developing new types of electric motors, generators and other devices.

One of the things Tesla developed at that laboratory in 1887 was an induction motor that ran on alternating current, a power system format that was starting to be built in Europe and the United States because of its advantages in long-distance, high-voltage transmission. The motor used polyphase current which generated a rotating magnetic field to turn the motor (a principle Tesla claimed to have conceived in 1882). This innovative electric motor, patented in May 1888, was a simple self-starting design that did not need a

commutator, thus avoiding sparking and the high maintenance of constantly servicing and replacing mechanical brushes.

In 1888, the editor of *Electrical World* magazine, Thomas Commerford Martin (a friend and publicist), arranged for Tesla to demonstrate his alternating current system, including his induction motor, at the American Institute of Electrical Engineers (now IEEE).

Engineers working for the Westinghouse Electric & Manufacturing Company reported to George Westinghouse that Tesla had a viable AC motor and related power system — something for which Westinghouse had been trying to secure patents. Westinghouse looked into getting a patent on a similar commutator-less, rotating magnetic field-based induction motor presented in a paper in March 1888 by the Italian physicist Galileo Ferraris, but decided Tesla's patent would probably control the market.



< Nikola Tesla's AC dynamo-electric machine (AC Electric generator) in an 1888 U.S. Patent 390,721

In July 1888, Brown and Peck negotiated a licensing deal with George Westinghouse for Tesla's polyphase induction motor and transformer designs for \$60,000 in cash and stock and a royalty of \$2.50 per AC horsepower produced by each motor. Westinghouse also hired Tesla for one year for the large fee of \$2,000 (\$52,700 in today's dollars) per month to be a consultant at the Westinghouse Electric & Manufacturing Company's Pittsburgh labs. During that year, Tesla worked in Pittsburgh, helping to create an alternating current system to power the city's streetcars. He found the time there frustrating because of conflicts between him and the other Westinghouse engineers over how best to implement AC power. Between them, they settled on a 60-cycle AC current system Tesla proposed (to match the working frequency of Tesla's motor), although they

soon found that, since Tesla's induction motor could only run at a constant speed, it would not work for street cars. They ended up using a DC traction motor instead.

War of Currents

Tesla's demonstration of his induction motor and Westinghouse's subsequent licensing of the patent, both in 1888, put Tesla firmly on the "AC" side of the so-called "War of Currents," an electrical distribution battle being waged between Thomas Edison and George Westinghouse that had been simmering since Westinghouse's first AC system in 1886 and had reached the point of all-out warfare by 1888. This started out as a competition between rival lighting systems with Edison holding all the patents for DC and the incandescent light and Westinghouse using his own patented AC system to power arc lights as well as incandescent lamps of a slightly different design to get around the Edison patent. The acquisition of a feasible AC motor gave Westinghouse a key patent in building a completely integrated AC system, but the financial strain of buying up patents and hiring the engineers needed to build it meant development of Tesla's motor had to be put on hold for a while. The competition resulted in Edison Machine Works pursuing AC development in 1890 and by 1892 Thomas Edison was no longer in control of his own company, which was consolidated into the conglomerate General Electric and converting to an AC delivery system at that point.

"Tesla Polyphase System"

At the beginning of 1893 Westinghouse engineer Benjamin Lamme had made great progress developing an efficient version of Tesla's induction motor and Westinghouse Electric started branding their complete polyphase phase AC system as the "Tesla Polyphase System", noting how they believed Tesla's patents gave them patent priority over other AC systems. In 1893, George Westinghouse won the bid to light the 1893 World's Columbian Exposition in Chicago with alternating current, beating out a General Electric bid by one million dollars. This World's Fair devoted a building to electrical exhibits. It was a key event in the history of AC power, as Westinghouse demonstrated the safety, reliability, and efficiency of a fully integrated alternating current system to the American public. At the Columbian Exposition, under a banner announcing the "Tesla Polyphase System", Tesla demonstrated a series of electrical effects previously performed throughout America and Europe,^[74] included using high-voltage, high-frequency alternating current to light a wireless gas-discharge lamp.^[75] An observer noted:

Within the room was suspended two hard-rubber plates covered with tin foil. These were about fifteen feet apart, and served as terminals of the wires leading from the transformers. When the current was turned on, the lamps or tubes, which had no wires connected to them, but lay on a table between the suspended plates, or which might be held in the hand in almost any part of the room, were made luminous. These were the same experiments and the same apparatus shown by Tesla in London about two years previous, "where they produced so much wonder and astonishment".

Tesla also explained the principles of the rotating magnetic field in an induction motor by demonstrating how to make a copper egg stand on end using a device he constructed known as the *Egg of Columbus*.

Niagara and patents

In 1893 Richard Dean Adams, who headed up the Niagara Falls Cataract Construction Company sought Tesla's opinion on what system would be best to transmit power generated at the falls. Over several years there had been a series of proposals and open competitions on how best to utilize power generated by the falls with many systems being proposed by several US and European companies including two-phase and three-phase AC, high-voltage DC, and even compressed air. Adams pumped Tesla for information about the current state of all the competing systems. Tesla advised Adams that a two-phased system would be the most reliable and that there was a Westinghouse system to light incandescent bulbs using two-phase alternating current. Based on Tesla's advice and Westinghouse's demonstration that they could build a complete AC system at the Columbian Exposition, a contract for building a two-phase AC generating system at the Niagara Falls was awarded to Westinghouse Electric. A further contract to build the AC distribution system was awarded to General Electric.

The mid 1890s saw the conglomerate General Electric, backed by financier J. P. Morgan, involved in takeover attempts and patent battles with Westinghouse Electric. Although a patent-sharing agreement was signed between the two companies in 1896, Westinghouse was still cash-strapped from the financial warfare. To secure further loans, Westinghouse was forced to revisit Tesla's AC patent, which bankers considered a financial strain on the company (at that point

Westinghouse had paid out an estimated \$200,000 in licenses and royalties to Tesla, Brown, and Peck). In 1897, Westinghouse explained his financial difficulties to Tesla in stark terms, saying that if things continue the way they were he would no longer be in control of Westinghouse Electric and Tesla would have to "deal with the bankers" to try to collect future royalties. Westinghouse convinced Tesla to release his company from the licensing agreement over Tesla's AC patents in exchange for Westinghouse Electric purchasing the patents for a lump sum payment of \$216,000; this provided Westinghouse a break from what, due to alternating current's rapid gain in popularity, had turned out to be an overly generous \$2.50 per AC horsepower royalty.

American citizenship

On 30 July 1891, at the age of 35, Tesla became a naturalized citizen of the United States, and established his South Fifth Avenue laboratory, and later another at 46 E. Houston Street, in New York. He lit electric lamps wirelessly at both locations, demonstrating the potential of wireless power transmission. In the same year, he patented the Tesla coil.

X-ray experimentation

Starting in 1894, Tesla began investigating what he referred to as radiant energy of "invisible" kinds after he had noticed damaged film in his laboratory in previous experiments (later identified as "*Roentgen rays*" or "X-Rays"). His early experiments were with Crookes tubes, a cold cathode electrical discharge tube. Soon after, much of Tesla's early research—hundreds of invention models, plans, notes, laboratory data, tools, photographs, valued at \$50,000—was lost in the 5th Avenue **laboratory fire of March 1895**. .. Tesla may have inadvertently captured an X-ray image—predating, by a few weeks, Wilhelm Röntgen's December 1895 announcement of the discovery of x-rays—when he tried to photograph Mark Twain illuminated by a Geissler tube, an earlier type of gas discharge tube.

In March 1896, after hearing of Wilhelm Röntgen's discovery of X-ray and X-ray imaging (radiography), Tesla proceeded to do his own experiments in X-ray imaging, developing a high energy single terminal vacuum tube of his own design that had no target electrode and that worked from the output of the Tesla Coil (the modern term for the phenomenon produced by this device is *bremstrahlung* or *braking radiation*). In his research, Tesla devised several experimental setups to produce X-rays. Tesla held that, with his circuits, the "instrument will ... enable one to generate Roentgen rays of much greater power than obtainable with ordinary apparatus."

Tesla noted the hazards of working with his circuit and single-node X-ray-producing devices. In his many notes on the early investigation of this phenomenon, he attributed the skin damage to various causes. He believed early on that damage to the skin was not caused by the Roentgen rays, but by the ozone generated in contact with the skin, and to a lesser extent, by nitrous acid.

On 11 July 1934, the *New York Herald Tribune* published an article on Tesla, in which he recalled an event that would occasionally take place while experimenting with his single-electrode vacuum tubes; a minute particle would break off the cathode, pass out of the tube, and physically strike him. "Tesla said he could feel a sharp stinging pain where it entered his body, and again at the place where it passed out." In comparing these particles with the bits of metal

projected by his "electric gun," Tesla said, "The particles in the beam of force ... will travel much faster than such particles ... and they will travel in concentrations."

Radio

Tesla's theories on the possibility of the transmission by radio waves go back as far as lectures and demonstrations in 1893 in St. Louis, Missouri, the Franklin Institute in Philadelphia, Pennsylvania, and the National Electric Light Association. Tesla's demonstrations and principles were written about widely through various media outlets. Many devices such as the Tesla Coil were used in the further development of radio.

Tesla's radio wave experiments in 1896 were conducted in Gerlach Hotel (later renamed The Radio Wave building), where he resided.

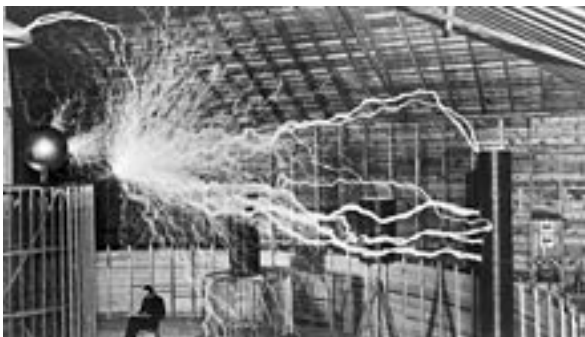
In 1898, Tesla demonstrated a radio-controlled boat—which he dubbed "teleautomaton"—to the public during an electrical exhibition at Madison Square Garden. The crowd that witnessed the demonstration made outrageous claims about the workings of the boat, such as magic, telepathy, and being piloted by a trained monkey hidden inside. Tesla tried to sell his idea to the U.S. military as a type of radio-controlled torpedo, but they showed little interest. Remote radio control remained a novelty until World War I and afterward, when a number of countries used it in military programs. Tesla took the



opportunity to further demonstrate "Teleautomatics" in an address to a meeting of the Commercial Club in Chicago, while he was travelling to Colorado Springs, on 13 May 1899. In 1900, Tesla was granted patents for a "system of transmitting electrical energy" and "an electrical transmitter." When Guglielmo Marconi made his famous first-ever transatlantic radio transmission in 1901, Tesla quipped that it was done with 17 Tesla patents, though there is little to support this claim. This was the beginning of years of patent battles over radio with Tesla's patents being upheld in 1903, followed by a reverse decision in favor of Marconi in 1904. In 1943, a Supreme Court of the United States decision restored the prior patents of Tesla, Oliver Lodge, and John Stone. The court declared that their decision had no bearing on Marconi's claim as the first to achieve radio transmission, just that since Marconi's claim to certain patents were questionable, he could not claim infringement on those same patents (there are claims the high court was trying to nullify a World War I claim against the U.S. government by the Marconi Company via simply restoring Tesla's prior patent).

Colorado Springs

See also: Magnifying transmitter and Colorado Springs Notes, 1899–1900



A multiple exposure picture (one of 68 images created by *Century Magazine* photographer Dickenson Alley) of Tesla sitting in his Colorado Springs laboratory with his "magnifying transmitter" generating millions of volts. The 7-metre (23 ft) long

arcs were not part of the normal operation, but only produced for effect by rapidly cycling the power switch.

Another Alley photograph from Colorado Springs documenting three lights receiving power by means of electrodynamic induction from an oscillator 60 feet (18 m) from the bulbs (placed on the ground outside the building to demonstrate they had no connection to the power source).

On 17 May 1899, Tesla moved to Colorado Springs, where he would have room for his high-voltage, high-frequency experiments. Upon his arrival, he told reporters that he was conducting wireless telegraphy experiments, transmitting signals from Pikes Peak to Paris. The 1978 book *Colorado Springs Notes, 1899–1900* contains descriptions of Tesla's experiments. On 15 June 1899, Tesla performed his first experiments at his Colorado Springs lab; he recorded his initial spark length at five inches long, but very thick and noisy.

Tesla investigated atmospheric electricity, observing lightning signals via his receivers. He stated that he observed stationary waves during this time. The great distances and the nature of what Tesla was detecting from lightning storms confirmed his belief that the earth had a resonant frequency. He produced artificial lightning, with discharges consisting of millions of volts and up to 135 feet long. Thunder from the released energy was heard 15 miles away in Cripple Creek, Colorado. People walking along the street observed sparks jumping between their feet and the ground. Sparks sprang from water line taps when touched. Light bulbs within 100 feet of the lab glowed even when turned off. Horses in a livery stable bolted from their stalls after receiving shocks through their metal shoes. Butterflies were electrified, swirling in circles with blue halos of St. Elmo's fire around their wings. While experimenting, Tesla inadvertently faulted a power station generator, causing a power outage. In August 1917, Tesla explained what had happened in *The Electrical Experimenter*: "As an example of what has been done with several hundred kilowatts of high frequency energy liberated, it was found that the dynamos in a power house six miles away were repeatedly burned out, due to the powerful high frequency currents set up in them, and which caused heavy sparks to jump through the windings and destroy the insulation!"

During his time at his lab, Tesla observed unusual signals from his receiver which he concluded may be communications from another planet. He mentioned them in a letter to reporter Julian Hawthorne at the Philadelphia North American on 8 December 1899, and in a December 1900 letter about possible discoveries in the new century to the Red Cross Society where he referred to messages "from another world" that read "1... 2... 3...". Reporters treated it as a sensational story and jumped to the conclusion Tesla was hearing signals from Mars. He expanded on the signals he heard in a 9 February 1901 Collier's Weekly article "Talking With Planets" where he said it had not been immediately apparent to him that he was hearing "intelligently controlled signals" and that the signals could come from Mars, Venus, or other planets. It has been hypothesized that he may have intercepted Marconi's European experiments in July 1899—Marconi may have transmitted the letter S (dot/dot/dot) in a naval demonstration, the same three impulses that Tesla hinted at hearing in Colorado-- or signals from another experimenter in wireless transmission.

In 1899, John Jacob Astor IV invested \$100,000 for Tesla to further develop and produce a new lighting system. Instead, Tesla used the money to fund his Colorado Springs experiments.

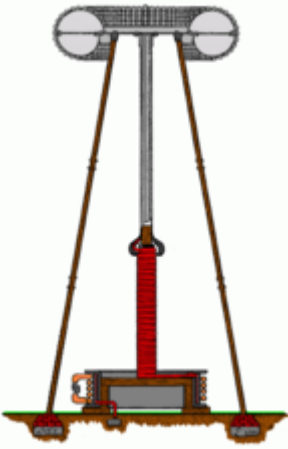
On 7 January 1900, Tesla left Colorado Springs. His lab was torn down in 1904, and its contents were sold two years later to satisfy a debt.

The Colorado experiments had prepared Tesla for the establishment of the trans-Atlantic wireless telecommunications facility known as Wardenclyffe near Shoreham, Long Island.

Wardenclyffe years (1900–1917)

See also: Wardenclyffe Tower

The Tesla coil wireless transmitter
U.S. Patent 1,119,732



Tesla's Wardenclyffe plant on Long Island in 1904.

From this facility, Tesla hoped to demonstrate wireless transmission of electrical energy across the Atlantic.

In 1900, with \$150,000 (\$4,266,600 in today's dollars; 51% from J. Pierpont Morgan), Tesla began planning the Wardenclyffe Tower facility.

Tesla later approached Morgan to ask for more funds to build a more powerful transmitter. When asked where all the money had gone, Tesla responded by saying that he was affected by the Panic of 1901, which he (Morgan) had caused. Morgan was shocked by the reminder of his part in the stock market crash and by Tesla's breach of contract by asking for more funds.

Tesla wrote another plea to Morgan, but it was also fruitless. Morgan still owed Tesla money on the original agreement, and Tesla had been facing foreclosure even before construction of the tower began.

In December 1901, Marconi successfully transmitted the letter S from England to Newfoundland, terminating Tesla's relationship with Morgan. Over the next five years, Tesla wrote over 50 letters to Morgan, pleading for and demanding additional funding to complete the construction of Wardenclyffe. Tesla continued the project for another nine months. The tower was erected to its full 187 feet (57 m). In July 1903, Tesla wrote to Morgan that in addition to wireless communication, Wardenclyffe would be capable of wireless transmission of electric power. On 14 October 1904, Morgan finally replied through his secretary, stating, "It will be impossible for [me] to do anything in the matter," after Tesla had written to Morgan when the financier was meeting with the Archbishop of Canterbury in an attempt to appeal to his Christian spirit.

In June 1902, Tesla's lab operations were moved to Wardenclyffe from Houston Street.

On his 50th birthday in 1906, Tesla demonstrated his 200 horsepower (150 kilowatts) 16,000 rpm bladeless turbine. During 1910–1911 at the *Waterside*



Power Station in New York, several of his bladeless turbine engines were tested at 100–5,000 hp.

Tesla invented a steam-powered mechanical oscillator—Tesla's oscillator. While experimenting with mechanical oscillators at his Houston Street lab, Tesla allegedly generated a resonance of several buildings. As the speed grew, it is said that the machine oscillated at the resonance frequency of his own building and, belatedly realizing the danger, he was forced to use a sledge hammer to terminate the experiment, just as the police arrived.

In February 1912, an article—"Nikola Tesla, Dreamer" by Allan L. Benson—was published in *World Today*, in which an artist's illustration appears showing the entire earth cracking in half with the caption, "Tesla claims that in a few weeks he could set the earth's crust into such a state of vibration that it would rise and fall hundreds of feet and practically destroy civilization. A continuation of this process would, he says, eventually split the earth in two."

Tesla theorized that the application of electricity to the brain enhanced intelligence. In 1912, he crafted "a plan to make dull students bright by saturating them unconsciously with electricity," wiring the walls of a schoolroom and, "saturating [the schoolroom] with infinitesimal electric waves vibrating at high frequency. The whole room will thus, Mr. Tesla claims, be converted into a health-giving and stimulating electromagnetic field or 'bath.'" The plan was, at least provisionally approved by then superintendent of New York City schools, William H. Maxwell.

Before World War I, Tesla sought overseas investors. After the war started, Tesla lost the funding he was receiving from his patents in European countries. Eventually, he sold Wardenclyffe for \$20,000 (\$472,500 in today's dollars). In 1917, around the time that the Wardenclyffe Tower was demolished by Boldt to make the land a more viable real estate asset, Tesla received AIEE's highest honor, the Edison Medal.

In the August 1917 edition of the magazine *Electrical Experimenter* Tesla postulated that electricity could be used to locate submarines via using the reflection of an "electric ray" of "tremendous frequency," with the signal being viewed on a fluorescent screen (a system that has been noted to have a superficial resemblance to modern radar). Tesla was incorrect in his assumption that high frequency radio waves would penetrate water but Émile Girardeau, who helped develop France's first radar system in the 1930s, noted in 1953 that Tesla's general speculation that a very strong high frequency signal would be needed was correct stating "*(Tesla) was prophesying or dreaming, since he had at his disposal no means of carrying them out, but one must add that if he was dreaming, at least he was dreaming correctly.*"

Later years (1918–1943)

Tesla spent the period 1919-1922 working in Milwaukee for Allis-Chalmers.

In 1928, Tesla received his last patent, U.S. Patent 1,655,114, for a biplane capable of taking off vertically (VTOL aircraft) and then be "*gradually tilted through manipulation of the elevator devices*" in flight until it was flying like a conventional plane. Tesla thought the plane would sell for less than \$1,000. Although the aircraft was probably impractical, it may be the earliest known design for what became

the tiltrotor/tilt-wing concept as well as the earliest proposal for the use of turbine engines in rotor aircraft.

Starting in 1934, the Westinghouse Electric & Manufacturing Company began paying Tesla \$125 per month as well as paying his rent at the Hotel New Yorker, expenses the Company would pay for the rest of Tesla's life. Accounts on how this came about vary. Several sources say Westinghouse was worried about potential bad publicity surrounding the impoverished conditions their former star inventor was living under. It has been described as being couched in the form of a "consulting fee" to get around Tesla's aversion to accept charity, or by one biographer (Marc Seifer), as a type of unspecified settlement.

In 1935, in an annual birthday celebration interview, Tesla announced a method of transmitting mechanical energy with minimal loss over any terrestrial distance, a related new means of communication, and a method of accurately determining the location of underground mineral deposits.

In the fall of 1937, after midnight one night, Tesla left the Hotel New Yorker to make his regular commute to the cathedral and the library to feed the pigeons. While crossing a street a couple of blocks from the hotel, Tesla was unable to dodge a moving taxicab and was thrown heavily to the ground. Tesla's back was severely wrenched and three of his ribs were broken in the accident (the full extent of his injuries will never be known; Tesla refused to consult a doctor—an almost lifelong custom). Tesla didn't raise any question as to who was at fault and refused medical aid, only asking to be taken to his hotel via cab. Tesla was bedridden for some months and was unable to continue feeding pigeons from his window; soon, they failed to come. In early 1938, Tesla was able to get up. He at once resumed the pigeon-feeding walks on a much more limited scale, but frequently had a messenger act for him.

Directed-energy weapon

Later in life, Tesla made claims concerning a "teleforce" weapon after studying the Van de Graaff generator. The press variably referred to it as a "peace ray" or death ray. Tesla described the weapon as capable of being used against ground-based infantry or for anti-aircraft purposes.

Tesla gives the following description concerning the "particle gun"'s operation: [The nozzle would] send concentrated beams of particles through the free air, of such tremendous energy that they will bring down a fleet of 10,000 enemy airplanes at a distance of 200 miles from a defending nation's border and will cause armies to drop dead in their tracks.

In total, the components and methods included:

- An apparatus for producing manifestations of energy in free air instead of in a high vacuum as in the past.
- A mechanism for generating tremendous electrical force.
- A means of intensifying and amplifying the force developed by the second mechanism.
- A new method for producing a tremendous electrical repelling force. This would be the projector, or gun, of the invention.

Tesla claimed to have worked on plans for a directed-energy weapon from the early 1900s until his death.

In 1937, at a luncheon in his honor concerning the death ray, Tesla stated, "But it is not an experiment ... I have built, demonstrated and used it. Only a little time will pass before I can give it to the world."

His records indicate that the device is based on a narrow stream of small tungsten pellets that are accelerated via high voltage (by means akin to his magnifying transformer).

During the same year, Tesla wrote a treatise, *The Art of Projecting Concentrated Non-dispersive Energy through the Natural Media*, concerning charged particle beam weapons. Tesla published the document in an attempt to expound on the technical description of a "superweapon that would put an end to all war." This treatise is currently in the Nikola Tesla Museum archive in Belgrade. It describes an open-ended vacuum tube with a gas jet seal that allows particles to exit, a method of charging particles to millions of volts, and a method of creating and directing non-dispersive particle streams (through electrostatic repulsion). Tesla tried to interest the US War Department, the United Kingdom, the Soviet Union, and Yugoslavia in the device. During the period in which the negotiations were being conducted, Tesla said that efforts had been made to steal the invention. His room had been entered and his papers had been scrutinized, but the thieves, or spies, left empty-handed. He said that there was no danger that his invention could be stolen, for he had at no time committed any part of it to paper; the blueprint for the teleforce weapon was all in his mind.

Death

On 7 January 1943, at the age of 86, Tesla died alone in room 3327 (*S.Kubrick Rm. 237 coincidence?*) of the New Yorker Hotel. His body was later found by maid Alice Monaghan after she had entered Tesla's room, ignoring the "do not disturb" sign that Tesla had placed on his door two days earlier. Assistant medical examiner H.W. Wembly examined the body and ruled that the cause of death had been coronary thrombosis. Coronary thrombosis is the formation of a blood clot inside a blood vessel of the heart. Tesla's remains were taken to the Frank E. Campbell Funeral Home at Madison Ave. and 81st St.

A long-time friend and supporter of Tesla, Hugo Gernsback, commissioned a sculptor to create a death mask, now displayed in the Nikola Tesla Museum.

Two days later, the FBI ordered the Alien Property Custodian to seize Tesla's belongings, even though Tesla was an American citizen. Tesla's entire estate from the Hotel New Yorker and other New York City hotels was transported to the Manhattan Storage and Warehouse Company under the Office of Alien Property (OAP) seal.

*John G. Trump, a professor at M.I.T. and a well-known electrical engineer serving as a technical aide to the National Defense Research Committee, was called in to analyze the Tesla items in OAP custody.

After a three-day investigation, Trump's report concluded that there was nothing which would constitute a hazard in unfriendly hands, stating:

[Tesla's] thoughts and efforts during at least the past 15 years were primarily of a speculative, philosophical, and somewhat promotional character often concerned with the production and wireless transmission of power; but did not include new, sound, workable principles or methods for realizing such results.

In a box purported to contain a part of Tesla's "death ray", Trump found a 45-year-old multidecade resistance box.

On 10 January 1943 (3 days after death), New York City mayor Fiorello La Guardia read a eulogy written by Slovene-American author Louis Adamic live over the WNYC radio while violin pieces "Ave Maria" and "Tamo daleko" were played in the background. On 12 January, two thousand people attended a state funeral for Tesla at the Cathedral of Saint John the Divine. The following day, a second service was conducted by prominent priests in the Trinity Chapel (today's Serbian Orthodox Cathedral of Saint Sava) in New York City. After the funeral, Tesla's body was taken to the Ferncliff Cemetery in Ardsley, New York, where it was later cremated.

In 1952, following pressure from Tesla's nephew, Sava Kosanović, Tesla's entire estate was shipped to Belgrade in 80 trunks marked N.T. In 1957, Kosanović's secretary Charlotte Muzar transported Tesla's ashes from the United States to Belgrade. The ashes are displayed in a gold-plated sphere on a marble pedestal in the Nikola Tesla Museum.



< Gilded urn with Tesla's ashes, in his favorite geometrical object, a sphere (Nikola Tesla Museum, Belgrade)

construction. >

Note Ziggurat-style hotel



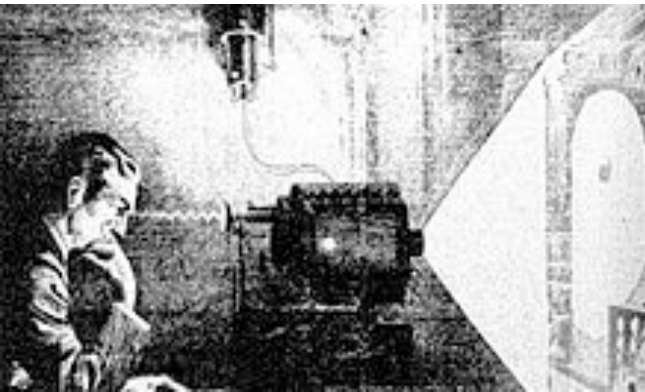
v The New Yorker Hotel (now Wyndham) Banquet Room



^ Stanly Kubrick's famed Room 237 from the movie The Shinning.

Patents

Main article: List of Nikola Tesla patents



< Newspaper representation of Tesla's theoretical invention, the thought camera, which would photograph thoughts. c. 1933

Tesla obtained around 300 patents worldwide for his inventions.¹ Some of Tesla's patents are not accounted for, and various sources have discovered some that have lain hidden in patent archives. There are a minimum of 278 patents

issued to Tesla in 26 countries that have been accounted for. Many inventions developed by Tesla were not put into patent protection.

Personal life

Tesla worked every day from 9:00 a.m. until 6:00 p.m. or later, with dinner from exactly 8:10 p.m., at Delmonico's restaurant and later the Waldorf-Astoria Hotel. Tesla would telephone his dinner order to the headwaiter, who also could be the only one to serve him. "The meal was required to be ready at eight o'clock ... He dined alone, except on the rare occasions when he would give a dinner to a group to meet his social obligations. Tesla would then resume his work, often until 3:00 a.m."

For exercise, Tesla walked between 8 to 10 miles per day. He squished his toes one hundred times for each foot every night, saying that it stimulated his brain cells.

In an interview with newspaper editor Arthur Brisbane, Tesla said that he did not believe in telepathy, stating, "Suppose I made up my mind to murder you," he said, "In a second you would know it. Now, isn't that wonderful? By what process does the mind get at all this?"

In the same interview, Tesla said that he believed that all fundamental laws could be reduced to one.

Near the end of his life, Tesla walked to the park every day to feed the pigeons and even brought injured ones into his hotel room to nurse back to health. He said that he had been visited by a specific injured white pigeon daily. Tesla spent over \$2,000, including building a device that comfortably supported her so her bones could heal, to fix her broken wing and leg.

Tesla stated, "I have been feeding pigeons, thousands of them for years. But there was one, a beautiful bird, pure white with light grey tips on its wings; that one was different. It was a female. I had only to wish and call her and she would come flying to me. I loved that pigeon as a man loves a woman, and she loved me. As long as I had her, there was a purpose to my life."

Tesla became a vegetarian in his later years, living on only milk, bread, honey, and vegetable juices.

Appearance

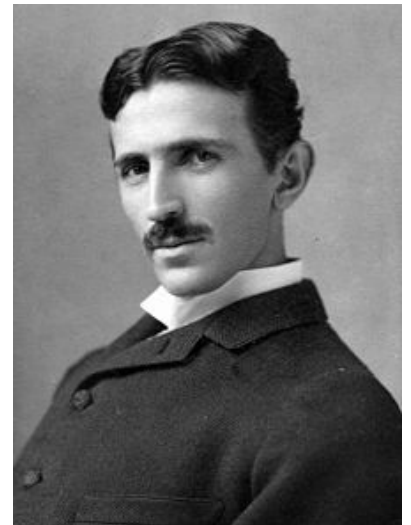
Tesla, aged 34, in an 1890 photo by Napoleon Sarony >

Tesla was 6 feet 2 inches (1.88 m) tall and weighed 142 pounds (64 kg), with almost no weight variance from 1888 to about 1926.

He was an elegant, stylish figure in New York City, meticulous in his grooming, clothing, and regimented in his daily activities.

This was not because of personal vanity. Neatness and fastidiousness in clothes were entirely in harmony with every other phase of his personality.

He did not maintain a large wardrobe and he wore no jewelry of any kind ... He observed, however, that in the matter of clothes the world takes a man at his own valuation, as expressed in his appearance, and frequently eases his way to his objective through small courtesies not extended to less prepossessing individuals.



Arthur Brisbane, a newspaper editor for the *New York World*, described Tesla's appearance: Nikola Tesla is almost the tallest, almost the thinnest and certainly the most serious man who goes to Delmonico's regularly ... He has eyes set very far back in his head. They are rather light. I asked him how he could have such light eyes and be a Slav. He told me that his eyes were once much darker, but that using his mind a great deal had made them many shades lighter. I have often heard it said that using the brain makes the eyes lighter in color. Tesla's confirmation of the theory through his personal experience is important. .. He is very thin, is more than six feet tall and weighs less than a hundred and forty pounds. He has very big hands. Many able men do—Lincoln is one instance. His thumbs are remarkably big, even for such big hands. They are extraordinarily big. This is a good sign. The thumb is the intellectual part of the hand. The apes have very small thumbs. Study them and you will notice this.

Nikola Tesla has a head that spreads out at the top like a fan. His head is shaped like a wedge. His chin is as pointed as an ice-pick. His mouth is too small. His chin, though

not weak, is not strong enough. His face cannot be studied and judged like the faces of other men, for he is not a worker in practical fields. **He lives his life up in the top of his head, where ideas are born, and up there he has plenty of room. His hair is jet black and curly.** He stoops—most men do when they have no peacock blood in them. He lives inside of himself. He takes a profound interest in his own work. He has that supply of self-love and self-confidence which usually goes with success. And he differs from most of the men who are written and talked about in the fact that he has something to tell.

Eidetic memory

Tesla read many works, memorizing complete books, and supposedly possessed a photographic (eidetic) memory. He was a polyglot, speaking eight languages: Serbo-Croatian, Czech, English, French, German, Hungarian, Italian, and Latin. Tesla related in his autobiography that he experienced detailed moments of inspiration. During his early life, Tesla was repeatedly stricken with illness. He suffered a peculiar affliction in which blinding flashes of light would appear before his eyes, often accompanied by visions.

Often, the visions were linked to a word or idea he might have come across; at other times they would provide the solution to a particular problem he had encountered. Just by hearing the name of an item, he would be able to envision it in realistic detail. Tesla would visualize an invention in his mind with extreme precision, including all dimensions, before moving to the construction stage, a technique sometimes known as picture thinking. He typically did not make drawings by hand but worked from memory. Beginning in his childhood, Tesla had frequent flashbacks to events that had happened previously in his life.

Sleep habits

Tesla claimed to never sleep more than two hours. However, Tesla did admit to "dozing" from time to time "to recharge his batteries."

On one occasion at his laboratory, Tesla worked for a period of 84 hours without sleep or rest.

Kenneth Swezey, a journalist whom Tesla had befriended, confirmed that Tesla rarely slept. Swezey recalled one morning when Tesla called him at 3 a.m.: "I was sleeping in my room like one dead ... Suddenly, the telephone ring awakened me ... [Tesla] spoke animatedly, with pauses, [as he] ... work[ed] out a problem, comparing one theory to another, commenting; and when he felt he had arrived at the solution, he suddenly closed the telephone."

Relationships

Tesla never married; he said his chastity was very helpful to his scientific abilities. However, toward the end of his life, he told a reporter, "Sometimes I feel that by not marrying, I made too great a sacrifice to my work ..." There have been numerous accounts of women vying for Tesla's affection, even some madly in love with him. Tesla, though polite and soft-spoken, did not have any known relationships.

Tesla was asocial and prone to seclude himself with his work. However, when he did engage in a social life, many people spoke very positively and admiringly of Tesla.

Robert Underwood Johnson described him as attaining a "distinguished sweetness, sincerity, modesty, refinement, generosity, and force." His loyal secretary, Dorothy Skeritt, wrote: "his genial smile and nobility of bearing always denoted the gentlemanly characteristics that were so ingrained in his soul." Tesla's friend, Julian Hawthorne, wrote, "seldom did one meet a scientist or engineer who was also a poet, a philosopher, an appreciator of fine music, a linguist, and a connoisseur of food and drink."

In middle age, Tesla became a close friend of Mark Twain; they spent a lot of time together in his lab and elsewhere. Twain notably described Tesla's induction motor invention as "the most valuable patent since the telephone."

In the late 1920s, Tesla also befriended George Sylvester Viereck, a poet, writer, mystic, and later, a Nazi propagandist. Tesla occasionally attended dinner parties held by Viereck and his wife.

Tesla could be harsh at times and openly expressed disgust for overweight people, such as when he fired a secretary because of her weight. He was quick to criticize clothing; on several occasions, Tesla directed a subordinate to go home and change her dress. When Thomas Edison died in 1931, Tesla contributed the only negative opinion to *The New York Times*, buried in an extensive coverage of Edison's life: "He had no hobby, cared for no sort of amusement of any kind and lived in utter disregard of the most elementary rules of hygiene ... His method was inefficient in the extreme, for an immense ground had to be covered to get anything at all unless blind chance intervened and, at first, I was almost a sorry witness of his doings, knowing that just a little theory and calculation would have saved him 90 percent of the labor. But he had a veritable contempt for book learning and mathematical knowledge, trusting himself entirely to his inventor's instinct and practical American sense."

Beliefs

On experimental and theoretical physics

Tesla exhibited a pre-atomic understanding of physics in his writings; he disagreed with the theory of atoms being composed of smaller subatomic particles, stating there was no such thing as an electron creating an electric charge (he believed that if electrons existed at all, they were some fourth state of matter or "sub-atom" that could only exist in an experimental vacuum and that they had nothing to do with electricity). Tesla believed that atoms are immutable—they could not change state or be split in any way. He was a believer in the 19th century concept of an all pervasive "ether" that transmitted electrical energy.

Tesla was generally antagonistic towards theories about the conversion of matter into energy.

He was also critical of Einstein's theory of relativity, saying:

I hold that space cannot be curved, for the simple reason that it can have no properties. It might as well be said that God has properties. He has not, but only attributes and these are of our own making. Of properties we can only

speaking when dealing with matter filling the space. To say that in the presence of large bodies space becomes curved is equivalent to stating that something can act upon nothing. I, for one, refuse to subscribe to such a view. Tesla claimed to have developed his own physical principle regarding matter and energy that he started working on in 1892, and in 1937, at age 81, claimed in a letter to have completed a "dynamic theory of gravity" that *"[would] put an end to idle speculations and false conceptions, as that of curved space."* He stated that the theory was "worked out in all details" and that he hoped to soon give it to the world. **Further elucidation of his theory was never found in his writings.**

On society

Tesla, like many of his era, became a proponent of an imposed selective breeding version of eugenics. His opinion stemmed from the belief that humans' "pity" had interfered with the natural "ruthless workings of nature," rather than from conceptions of a "master race" or inherent superiority of one person over another. His advocacy of it was, however, to push it further. In a 1937 interview, he stated:
... man's new sense of pity began to interfere with the ruthless workings of nature. The only method compatible with our notions of civilization and the race is to prevent the breeding of the unfit by sterilization and the deliberate guidance of the mating instinct ... The trend of opinion among eugenists is that we must make marriage more difficult. Certainly no one who is not a desirable parent should be permitted to produce progeny. **A century from now it will no more occur to a normal person to mate with a person eugenically unfit than to marry a habitual criminal.**

In 1926, Tesla commented on the ills of the social subservience of women and the struggle of women toward gender equality, and indicated that humanity's future would be run by "Queen Bees." He believed that women would become the dominant sex in the future.

Tesla is widely considered by his biographers as a humanist regarding his worldview.

Humanism is a philosophical and ethical stance that emphasizes the value and agency of human beings, individually and collectively, and generally prefers critical thinking and evidence (rationalism, empiricism) over acceptance of dogma or superstition. Generally, humanism refers to a perspective that affirms some notion of human freedom and progress. In modern times, humanist movements are typically aligned with secularism, and today humanism typically refers to a non-theistic life stance centred on human agency and looking to science rather than revelation from a supernatural source to understand the world.

Tesla made predictions about the relevant issues of a post-World War I environment in a printed article, "Science and Discovery are the great Forces which will lead to the Consummation of the War" (20 December 1914). **Tesla believed that the League of Nations was not a remedy for the times and issues.**

On religion

Tesla was raised an Orthodox Christian. Later in his life, he did not consider himself to be a "believer in the orthodox sense," and opposed religious fanaticism. Despite this, he had a profound respect for both Buddhism and Christianity.

In his article, "The Problem of Increasing Human Energy," published in 1900, Tesla stated:

For ages this idea [that each of us is only part of a whole] has been proclaimed in the consummately wise teachings of religion, probably not alone as a means of insuring peace and harmony among men, but as a deeply founded truth. The Buddhist expresses it in one way, the Christian in another, but both say the same: We are all one.

However, his religious views remain uncertain due to other statements that he made.

For example, in his article, "A Machine to End War", published in 1937, Tesla stated:

There is no conflict between the ideal of religion and the ideal of science, but science is opposed to theological dogmas because science is founded on fact. To me, the universe is simply a great machine which never came into being and never will end. The human being is no exception to the natural order. Man, like the universe, is a machine. Nothing enters our minds or determines our actions which is not directly or indirectly a response to stimuli beating upon our sense organs from without. Owing to the similarity of our construction and the sameness of our environment, we respond in like manner to similar stimuli, and from the concordance of our reactions, understanding is born. In the course of ages, mechanisms of infinite complexity are developed, but what we call "soul" or "spirit," is nothing more than the sum of the functionings of the body. When this functioning ceases, the "soul" or the "spirit" ceases likewise.

Literary works

Tesla wrote a number of books and articles for magazines and journals.^[209] Among his books are *My Inventions: The Autobiography of Nikola Tesla*, compiled and edited by Ben Johnston; *The Fantastic Inventions of Nikola Tesla*, compiled and edited by David Hatcher Childress; and *The Tesla Papers*.

Many of Tesla's writings are freely available on the web, including the article "The Problem of Increasing Human Energy," published in *The Century Magazine* in 1900, and the article "Experiments With Alternate Currents Of High Potential And High Frequency," published in his book *Inventions, Researches and Writings of Nikola Tesla*.

... ..

The Nikola Tesla / Donald Trump Connection (see Tesla's death account in wikipedia above)

8/23/2015 Posted by G. Hunter in Tesla, Free Energy, Opinion

<http://www.apparentlyapparel.com/news/the-nikola-tesla-donald-trump-connection>

Donald Trump admits his uncle, John G Trump HAS SEEN Nikola Tesla's Death Ray/Peace Ray/Teleforce, and/or Missile Shield, Worldwide Wireless Energy & The Automaton left in Nikola Tesla's (MULTI-DECADE MULTI-METER RESISTANCE-BOX (PANDORA'S BOX)

August 21st 2015 Donald Trump's Speech -- Exposing Nuclear Power Danger Hoax & Nuclear Bomb Hoax, Teleforce, Tesla's FBI File, George Herbert Walker Scherff Jr (Curious George)'s High Tension Radiant Beams, destruction of Tesla's Labs and Towers, his early Castration (Self Immolation), his Torture and eventual Assassination of Nikola Tesla by the conspirators with the CIA's Assassination Gun, declassified in 1973.

<https://www.youtube.com/watch?v=EIO5W7iEW8c>

Now go back to the beginning and read the first bold section of the interview, what the reporter said about Tesla. ...

Remember, he died bankrupt the biographies say. He was never a banker or man of wealth. He relied on investors for all his projects. .. That opening prophecy isn't him for 2 reasons, no wealth, and he died as a natural man.

So, could it be that another is going to rise in his spirit and vision. To "ressurrect" him, thru implimenting his inventions., for good or the bad... a banker for the largest benefactors.

John G Trump is the guy who got Tesla's papers/estate when the FBI asked someone to review them when he died. He was an engineer and MIT guy. .. Don's dad's brother. His uncle.

And who's the banker?

And who's looking for America's top political office? .. To rule a kingdom, and soon the world.