

## FOLLOWING THE TRACES OF TESLA'S CREATIVITY: FROM TESLA'S RESONANT COIL TO BIORESONANT INTEGRATIVE MEDICINE

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**Abstract.** Tesla's visions and inventions realized in his controlled altered states of consciousness contributed to his legendary aura as the greatest inventor in the history of electrical engineering at the end of 19th century, and what makes him fascinating is his unusual mental control of his creative visions, with significant quantum-holographic transpersonal creative–educational implications (including limits of Artificial Intelligence). At the beginning of the 20th century, Tesla's previously almost mythical scientific reputation and intuition began to darken, but he has still fascinated contemporaries by self-healing with HF currents, which subsequently led not only to the foundations of today's physical electrotherapy, but also represented inspiration for biomedical research and development of the field of bioresonant medicine, contributing also to the rapid development of nowadays integrative medicine (including transpersonal psychology) – with additional hints for reorientation to ecologically holistic subtle actions for solutions of the global risk society.

**Keywords:** *Nikola Tesla, Hopfield-Like Neural Networks, Quantum-Holographic Framework, Creativity & Education, Integrative Medicine, Transpersonal Psychology.*

### 1. Introduction

Nikola Tesla is undoubtedly the greatest inventor in the history of electrical engineering, and what makes him particularly fascinating is his unusual inner life from early childhood to the beginning of a series of creative visions begun in the legendary winter walk in Budapest City Park in 1882 (at the end of almost a year long illness), which then followed him throughout his life and led to the application of hundreds of patents (from electrical engineering to mechanical engineering) [1]. These numerous creative experiences contributed to Tesla's belief in the similarity of scientific and artistic ideas, that they came from the same source (a view similar to Plato's, and described in more detail in Patanjali's Yoga Sutras as *Ritam Bhara Pragya*, the most individual 'state of mind experiencing things as they are', through the connection with the quantum-holographic primal source of collective consciousness [2], and could help develop future strategies for education and Artificial intelligence [3,4].

### 2. Following the Traces of Tesla's Creativity

At the end of the 19th century, Tesla's discovery and application of a polyphase system of alternating currents, a rotating magnetic field, induction motors and transformers, eventually crowned by the pioneering hydroelectric power plant at Niagara Falls, laid the foundations of today's electric power industry and other industrial revolutions of the 20th century (along with Pupin's additional contributions to the development of today's telecommunications, with which Tesla had some disputes). Tesla was the first to experimentally demonstrate telemechanical control of a ship using a resonant Tesla coil (the so-called Tesla transformer), perfecting which he conducted legendary experiments with attempts at (resonant atmospheric / planetary) wireless transmission and electromagnetic (EM) high-frequency (HF) energy in laboratories in Colorado Springs and Long Island.

In those years, Tesla was a huge scientific authority in the sky of experimental physics in the USA and in Europe, whose opinion was followed by the media and the great physicists of that time (Helmholtz, Kirchhoff, Hertz, Roentgen, Crooks, Thomson...) with whom Tesla was in constant correspondence and discussions about the still unclear nature of light / EM waves, X-rays, cathode rays, electrons, cosmic rays,

ball lightning... With his scientific contemporaries, Tesla was also interested in for the (hydrodynamically analogous) physical nature of the ether, whose theoretical conception was abandoned in the modern physics of the 20th century with the appearance of Einstein's Special theory of relativity (and the hypothetical ether replaced by a physical vacuum as an arena for the transmission of EM waves, and for the latter numerous phenomena in Quantum physics, which Tesla could not come to terms with until the end of his life, even though the famous Einstein considered him the only true scientific genius of his time) [5].

### **3. From Tesla's Resonant Coil To Bioresonant Integrative Medicine**

At the beginning of the 20th century, Tesla's previously almost mythical scientific reputation and intuition began to darken, and he was still only occasionally the subject of sensationalist headlines due to his still large media halo. Thus, he fascinated contemporaries with self-healing with HF currents, and on one occasion even the famous yogi Vivekananda (who later said that Tesla was the great avatar of that era, because in his laboratory, by turning on HF currents, he mentally felt the presence of the entire pantheon of Hindu deities). Those Tesla researches then laid the foundations of today's physical electrotherapy with HF currents, but in the 1930s they also represented the inspiration for Dr. Raymond Rife's research in the field of bioresonance medicine [6], which was obstructed at the time and revived only at the end of the 20th century through the use of Dr. Hilda Clark's scanning HF devices for the low-voltage bioresonance destruction of many pathogenic microorganisms [7]. It should be added that resonant biomolecular excitations are theoretically predicted and experimentally observed in a wide frequency range – which includes a small part of ultraviolet radiation, visible, infrared and microwave radiation, and even lower frequency ranges up to MHz and kHz [8].

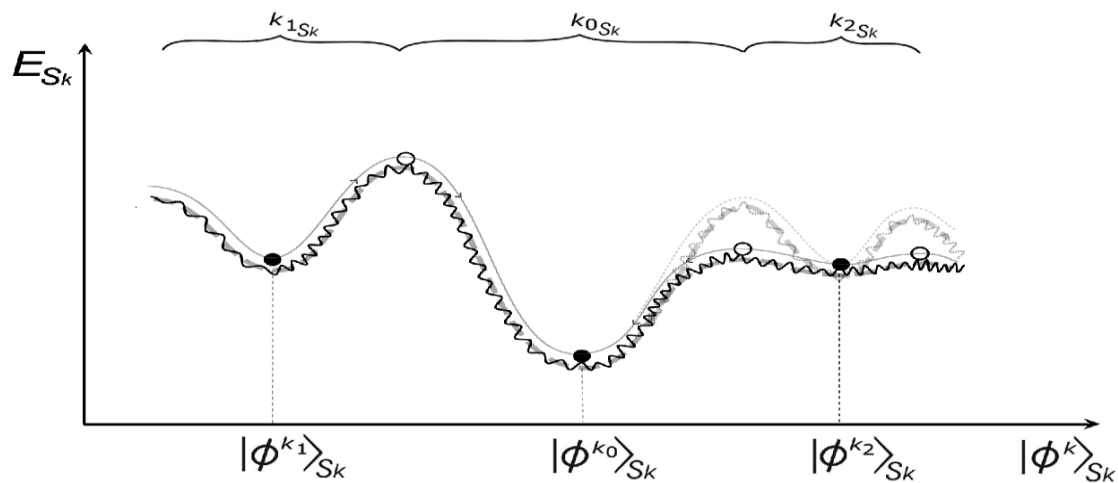
Dr. Jeffrey Thompson in a series of recommended popular holistic lectures on neuroacoustic medicine [9] promotes, among other things, the use of the Tesla HF coil in therapy with stimulated violet radiation [10]. The output of the resonant high-voltage HF circuit, in a plastic housing with electrodes heated in a glass argon / neon tube, also emits violet radiation that subcutaneously stimulates blood flow, tissue oxygenation, cellular detoxification and lymphatic drainage, with accelerated healing and stress relief. This apparatus is not only suitable for use in massage and cosmetology salons, but can also be used to balance numerous psychosomatic disorders recommended in electropuncture quantum information medical practice.

Let us point out that modern medicine has long emphasized allopathic-dosed, non-economical, highly medicated medical technologies. In contrast, bioadequate homeopathically dosed economical bioresonant quantum-informational medical technologies, related to the use of such field energy values which appear during the normal functioning of the human organism, have gained increasing importance in the last couple of decades. Thus, modern research on psychosomatic diseases caused by stress indicates the necessity of applying holistic methods, oriented to the treatment of the person as a whole, and not the disease as a symptom of a disorder of that whole, leading in recent decades to the rapid development of integrative medicine [11] and transpersonal psychology [12].

The focus of the mentioned holistic methods is the body acupuncture system and consciousness – which have the structure of the quantum-holographic Hopfield-like associative neural network [13]. Thus, in the context of all holistic approaches and techniques based on acupuncture and consciousness, their goal would be to bioresonantly excite a psychosomatically disturbed state, thereby enabling its initial memory attractor to be bioresonantly excited and become shallower and wider at the expense of deepening the (energetic-dominant) attractor-healthy state – which is then quantum-holographically projected to a lower cellular level, with an impact on the change in genome expression.

But when that process is hindered by transpersonally intertwined blockages in the energy-state space of the acupuncture system / consciousness – then the memory attractors of the quantum-holographic network connected-with-the field of collective consciousness should be removed (by prayer or circular psycho / energy therapies from all relevant meta-positions involved in the problem, thus implementing the spiritual integration of the personality that initiates the process of permanent healing as suggested by the

experiences of clients in post-hypnotic regressions). Thus, transpersonal holistic procedures, together with work on all levels of local bioresonance therapies and non-circular psycho/energy therapies, could be the holistic key to establishing healing boundary conditions in the energy-state space of the acupuncture system/consciousness of clients [14,15], cf. Figure 1.



**Figure 1.** Schematic presentation of the adaptation of memory attractors in the energy-state space of the quantum-holographic Hopfield-like associative neural network of the biological macroscopic open quantum system  $S_k$  (local cellular ferment / substrate; local bodily acupuncture system / consciousness; non-local out-of-body consciousness / collective consciousness). This implies the necessity of quantum-informational successive bioresonance balancing of all unwanted lateral memory attractors (as in the picture), which would otherwise cause the development of psychosomatic diseases at the individual level and interpersonal conflicts in this and future generations at the collective level – with hints for reorientation to ecologically holistic subtle actions for solutions of the global risk society [15,16].

#### 4. Conclusion

Nikola Tesla is undoubtedly the greatest inventor in the history of electrical engineering, and what makes him particularly fascinating is his unusual mental control of creative visions, with significant quantum-holographic transpersonal creative-educational implications. Apart of hundreds of patents (from electrical engineering to mechanical engineering), Tesla has fascinated contemporaries by self-healing with his HF currents, which afterwards represented inspiration not only for the foundations of today's physical electrotherapy, but also for biomedical research and development of nowadays established integrative medicine, as described subsequently in our paper.

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