

# Electricity and Human Consciousness

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**Without taking account** of the relation between bio-electrical processes in the human body and electromagnetic processes in the earth, in other words body electricity and earth electricity, it will not be possible to understand clearly by what means the scientific-technological development of modern times has influenced, and continues to influence with increasing severity, the moral nature of human beings (1). Naturally, the discovery of electricity and electromagnetism as well as their practical application, show a variety of facets. Electricity and electromagnetism are, *of course*, forces of nature that can affect the life of beings either beneficially *or* destructively, depending on their application. In medicine, electrotherapy can assist the healing process if correctly applied. But precisely the effects of magnetic fields have not been sufficiently investigated regarding their role in, say, the emergence of various disorders of the immune system like AIDS, in allergies, in chronic fatigue syndrome or certain types of cancer.

In addition, electromagnetic fields do possess an inner spiritual quality that must not be allowed to take hold of the human being completely. And exactly as electrical and electromagnetic phenomena display their effectiveness outwardly in physical matter, so they influence inwardly the moral constitution of human beings in the absence of their having taken protective measures against them.

The structures of matter (molecules, cells), as well as that of the higher members of a human being, seem to be organized to a large extent, with regard to the order of life-processes, through the oscillations of sunlight and of supersensible forces which **Rudolf Steiner** has called "etheric". Although 19th century physics believed to have evidence that light is merely a magnetic wave, quantum physics has shown -- what the Greeks of antiquity had already known by virtue of its moral impact -- that the connection between light, electricity and magnetism is far more complicated (2). Thus **Rudolf Steiner** once described electricity as light in a sub-material state, and as light that destructs itself within matter, or again as disintegrating light (3). In this connection he emphasized very strongly the importance of this insight for the inner life of the human being:

"The greatest contrast to electricity is light. And to consider light as a form of electricity, is to mix good and evil."(4)

It is well known that the oscillations of certain electrical frequencies in even small quantities and for short durations, have consequences that, although difficult to measure, are detrimental to health. But far less attention is paid to the question to what extent electrical phenomena influence a human being's thinking, feeling and willing. Here is a source of danger for humans that is not to be underestimated:

Never throughout the evolution of human consciousness were we so closely united through our physical bodies with the world of matter in relation to our thinking, feeling and willing. It is precisely this development of consciousness that, having given rise to a new world of technology, was responsible for the earth being enveloped in a dense fabric of artificially produced electromagnetic radiation -- altogether a situation that has not existed in the evolution of our planet up to now.

The interior of the earth emits natural microspulsations of approximately 10 Hz (Hertz), that is 10 oscillations per second. Lightning creates fields in a frequency range of 10 to 20 KHz (thousands of oscillations per second). At the other end of the spectrum light has become visible with billions of oscillations. Between the two fields described, there are those areas of the spectrum that only started to fill up with artificial radiation at the end of last century through human intervention, beginning with electric power supply systems around 50/60 Hz to ELF frequencies (ELF = extremely low frequency, in a spectrum of 0 to 100 Hz), often used for military purposes, or rather as *non-lethal* weapons, and on to medium, short and ultra-short waves, to the TV frequencies and the domain of microwave frequencies. Many data concerning application of the latter are also secret, as they too were researched and used for military purposes.

On the one hand, electromagnetic forces interact with the geomagnetic field that envelops the planet as a protective sheath, on the other one they interact with the interior of the earth that constantly emits

1 This subject has been introduced by David Heaf in his article 'Electromagnetic Radiation and the Human Being', in: *Trans Intelligence Internationale* (Issue 3/4 1999), pp. 35-37.

2 See Arthur Zajonc: *Catching the Light. The Entwined History of Light and Mind*. New York 1994.

3 Rudolf Steiner, October 1, 1911: *The Etherization of the Blood*.

4 Rudolf Steiner, January 28, 1923: *Lebendiges Naturerkennen. Intellektueller Sundenfall und spirituelle Sundenerhebung* (GA 220)

5 The HAARP-project in Alaska, promoted by the American Government, appears to have wanted to interfere in these complex connections. To this Jeane Manning, Nick Begich: *Angels Don't Play This HAARP. Advances in Tesla Technology*. Anchorage 1995.

6 Rudolf Steiner, November 16, 1917: *Hidden Forces in the Beings of Man*, in: *Geographic Medicine*.

7 Robert. O. Becker in *New York State Journal of Medicine*, vol. 63 (1963) p. 2215.

8 Important to this Robert O. Becker: *Cross Currents*. New York 1990 (here quoted after the German ed. *Der Funke des Lebens. Heilkraft und Gefahren der Elektrizität*. München 1994); Id., Gary Selden: *The Body Electric. Electromagnetism and the Foundation of Life*. New York 1985; B.Blake Levitt: *Electromagnetic Fields. A Consumer's Guide to the Issues of How to Protect Ourselves*. New York 1995; Marco Bischof: *Biophotonen*.

particles with either a positive or a negative electrical charge, ions, and other related forces. There is an assumption of a rotating core of liquid iron in the interior of the earth that envelops the planet in a magnetic dipole field, similar to that of a bar magnet. The magnetosphere varies from month to month, depending on the moon cycles; it does not rotate but stands firm in space. Accordingly, every point on earth is exposed to a constantly changing magnetic field with unchanging magnetic declinations towards the two magnetic poles, while its daily variations control the biological rhythm. There is electrodynamic interaction between the surface of the earth and the ionosphere by way of micropulsations in the 10 Hz area, in other words, the ELF channels(5).

In November 1917, in St. Gallen, **Rudolf Steiner** spoke about the important future task of establishing a new geographic medicine, or rather a medical geography;

"Some things will only be understood when the connection becomes clear that exists between the illness-producing agent inherent in the human being, and earth-geography with all its fusions, with all its radiations coming out of this earth to varying degrees, depending on the particular region of the earth."(6)

Only gradually does this problem penetrate the consciousness of academic natural science. A pioneer in the field of electromedicine, the American physician **Robert Becker**, first formulated in 1963 the theory that the natural, geographically determined magnetic environment presumably has an influence on human behaviour.(7) But we are dealing here not only with the medical consequences of interaction between natural radiation, artificially created radiation and body electricity (8), but also with the very real influence on soul and spirit-related forces.

In fact, perhaps the greatest danger in the present state of the evolving consciousness comes from substantial forces working through electricity and electromagnetism, influencing thinking and impacting very severely on the *will-orientated side* of human nature. The effectiveness increases because human beings are, by virtue of exercising their rational self-consciousness, particularly strongly united with their physical bodies, with the activity of brain and nerves in the thinking process, and also with impulsive acts of will rising up from the physical body in the form of instincts. In the process, *the will that is driven by instincts only*, is in danger of being paralysed and 'automated' where free initiative is concerned, if it is not met with the full force of human waking consciousness. It would no longer be controlled by human self-consciousness, no longer receiving from it morally guiding impulses. In such a case a human being can get carried away and commit actions that appear to come from a different 'ego', an internal '*double*'. Many artists have tried over the last 200 years, to come to grips with the constantly increasing effectiveness of the double, of which they were dimly aware in one way or another.(9)

As mentioned above, the individualization of human beings, as a necessity of our age, encounters the aversion of those people who only fear a 'war of all against all', or who fight against all forms of individualization because it hampers their all-encompassing desire for power and domination. These people are well aware of the connections between earth electricity and body electricity, and they want to use them as a weapon against the free unfolding of individuality.

In any case, this knowledge of the relation between earth's magnetic forces, geographic medicine and human behaviour (including thought and will impulses) is critical knowledge for every statesman of the future. For instance, the [maps](#) drawn by modern Western geopoliticians like **Zbigniew Brzezinski** or **Samuel Huntington** on which they depict 'geostrategical fault lines' or zones of a possible "[clash of civilization](#)" show a strange, but not arbitrary resemblance to maps that represent the magnetic declination chart of the earth's electromagnetic field. For example, the zero meridian of the magnetic declination runs through Europe almost exactly (it is slightly fluctuating) on the old fault line of Greek-Orthodox and Latin-Catholic civilizations (Western Ukraine, Transylvania, Bosnia-Herzegovina/Serbia). Cultural divisions and misunderstandings are to a large part nourished by sympathy and antipathy, and in most cases these stem from instinct, that is subconscious will-forces. Such a knowledge, if it is kept as a secret, can be misused to manipulate or to agitate the population of certain regions in order to further power politics and "the short road to global supremacy", as **Brzezinski** puts it, or it can be used, once it is laid open, in a truly mediating Christian sense for the welfare of the whole of humanity.(9a)

*Das Licht in unseren Zellen.* Frankfurt/M. 1995; Alan Hall: *Water, Electricity and Health. Protecting Ourselves from the Electromagnetic Stress.* Stroud, Gloucestershire 1997.

9 A summary of literary testimony is found with Otto Rank: "Der Doppelgänger". *Imago. Zeitschrift für Anwendung der Psychoanalyse auf die Geisteswissenschaften.* Ed. by Sigmund Freud. Vol. III/2 (1914), pp. 97-164.

9a See in this issue Stephen Usher's discussion of "All-Human Geopolitics" in his article 'Helmut James von Moltke and the Tragedy of the 20th Century'.

10 Cf. Becker: *Der Funke des Lebens*, p. 100.

11 Compare William E. Southern: 'The Earth's Magnetic Field as a Navigational Clue'. *Modern Bioelectricity.* Ed. by Andrew A. Marino. New York, Basel 1988, pp. 35-74.

12 R. Robin Baker: 'Human Magnetoreception for Navigation'. *Electromagnetic Fields and Neurobehavioural Function.* Ed. by Mary E. O'Connor, Richard H. Lovely. New York 1988, p. 73sq.

13 José M.R. Delgado: *Physical Control of the Mind. Toward a Psychocivilized Society.* New York 1969; John Marks: *The Search for the 'Manchurian Candidate': The CIA and Mind Control.* Paperback New York 1991; Walter Bowart: *Operation Mind Control.* New York 1978; Armen Vitorian: *The Mind Controllers.* London 1999; Vance Packard: *The People Shapers.* Boston 1977. On the WWW compare [Mind Control Forum Home Page](#).

14 Becker: *Der Funke des Lebens*, p. 283sq.

15 *Congressional Record*, no. 26, vol. 118, February 24, 1974..

16 'Matador with a Radio Stops Wild Bull'. *The New York Times* May 17, 1965.

17 Armen Vitorian: 'The Military Use of Electromagnetic Microwave and Mind Control Technology'. *Lobster* vol. 34, winter 1998, pp 2-7.

18 Rudolf Steiner, September 9, 1908:

### Magnetic Field of the Earth - 1995 Declination Chart

In 1945 intensive research was carried out, especially in the USA and the Soviet Union, into guiding and controlling consciousness by means of electric impulses. This demonic type (one cannot call it otherwise) of brainwashing and rape and/or deprivation of the free will, is frequently called **Mind Control**. Causing a sensation, these experiments came to public notice when, at the end of the sixties, the neurologist Dr. **José M.R. Delgado** of the Centro Ramón y Cajal Hospital in Madrid and the Yale University School of Medicine published his findings in the book *'Physical Control of the Mind: Towards a Psychocivilized Society'*. We know of ESB's potential for mind control largely through the work of **José Delgado**. One signal provoked a cat to lick its fur, then continue compulsively licking the floor and bars of its cage. A signal designed to stimulate a portion of a monkey's thalamus, a major midbrain center for integrating muscle movements, triggered a complex reaction: The monkey walked to one side of the cage, then the other, then climbed to the rear ceiling, then back down. The animal performed this same activity as many times as it was stimulated with the signal, up to sixty times an hour, but not blindly -- the creature still was able to avoid obstacles and threats from the dominant male while carrying out the electrical imperative. Another type of signal has made monkeys turn their heads, or smile, no matter what else they were doing, up to twenty thousand times in two weeks. As **Delgado** concluded, "The animals looked like electronic toys."

In his conclusion **Delgado** summarized his findings by saying that

The patients reported that their behaviour had changed against their will because they lacked the strength (will forces!) to resist against the electrical signal.

28 Rudolf Steiner, *Anthroposophical Leading Thoughts*, nos. 183-185.

"Since the brain controls the entire body and all mental processes, electrical stimulation of the brain could be developed into an important method of planned manipulation of human behaviour."(14)

**Delgado** elaborated his point of view in sentences like the following:

"We need a programme of psychosurgery for political control of the mind. Everyone who deviates from the given norm can be surgically mutilated. (...) The individual may think that the most important reality is his point of view. This lacks historical perspective. (...) Man does not have the right to develop his own mind. (...). We must electrically control the brain. Some day armies and generals will be controlled by electrical stimulation of the brain."(15)

In Spanish Cordoba **Delgado** demonstrated his theory by way of popular entertainment; he implanted hair-like electrodes into the interbrain of a bull, that were to control the behaviour of the bull by acting as receivers of electrical stimulations:

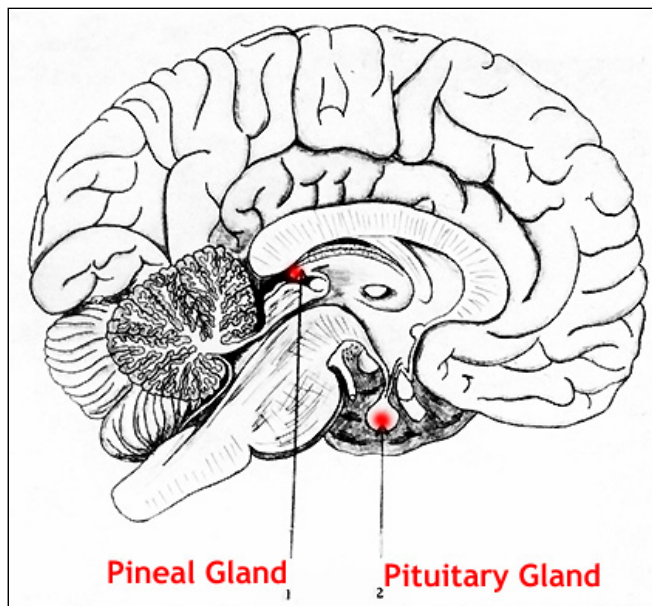
"Afternoon sunlight poured over the high wooden barrier into the ring, as the brave bull bore down on the unarmed matador, a scientist who had never faced a bull. But the charging animal's horns never reached the man behind the heavy red cape. Moments before that could happen, Dr. **Delgado** pressed a button on a small radio transmitter in his hand and the bull braked to a halt. Then he pressed another button on the transmitter, and the bull obediently turned to the right and trotted away. The bull was obeying commands in his brain that were being called forth by the radio signals acting as electrical stimulation to certain regions in which fine wires had been painlessly planted the day before."(16)

**Delgado's** research has long since found adherents. Experiments are carried out with implants capable of achieving a great variety of results; also with direct radiation from microwaves, ELF and other high-pulsating electromagnetic rays or fields designed to manipulate the memory, control behaviour, or simply temporarily incapacitate. The victims suffer long-lasting damage to the health of the organ affected, are driven to insanity by 'voices', develop compulsive behaviour, carry out certain tasks against their inclination etc. The latest experiments point in the direction of filtering the 'imprint' of concrete emotions in the brain with the aid of electroencephalograms (EEG) and specific computer software, to synthesize the relevant frequencies and amplitudes as emotion signature clusters, to store them on computer and, if needed, to clone them into other brains by stimulus transfer.(17)

As mentioned before, two regions of the brain are exceptionally sensitive to light and electricity: The pineal gland and the pituitary gland. Attempts to interfere with the function of these two glands can result in fundamental physiological, and etheric-supersensible processes being disordered, with disastrous consequences for human beings because here, sensory and supersensible processes take place that can thrust the human being into complete decline, into decadence; or, conversely, create specifically the decisive future organic basis for the higher spiritual human organism. Three areas in particular are controlled by the two glands: thinking, sensory perception and procreation.

The **pineal gland**, 50mm long and shaped like a pine-cone, sitting deep down in the centre of the head, is the shrivelled remnant of an ancient warmth and light-perceiving sense organ that opened to the exterior with the fontanelle in the cranial bone.(18) The pineal gland is in contact with the *parietal chakra*, the so-called thousand-petalled lotus.(19) It regulates the circadian rhythms of the body, biological rhythms that are attuned to the day-night cycle and cover a period of 24-25 hours. These rhythms can be disrupted by natural or artificial magnetic fields and, among other things, react to the daily cyclical pattern of the terrestrial magnetic field. The pineal gland interacts closely with the sympathetic nervous system that is responsible for functions like an increased heartbeat frequency (above the diaphragm, the activity of organs is enhanced by the sympathetic system and inhibited by the parasympathetic one; below the diaphragm, the opposite applies); thus, the nerves that serve the pineal gland don't originate in the brain but in the sympathetic nervous system.

There is a non-visual energetic connection from the eyes straight to the hypothalamic and hypophyseal parts of the brain, a further one to the pineal gland, with the latter reacting to changes in brightness, as well as the various colours of sunlight; this process has an energizing effect on the whole organism. (20) The pineal complex also controls body temperature. In the pineal gland the hormone melatonin is manufactured whose discharge is inhibited by light radiation and occurs therefore by night. Melatonin inhibits the development of germ cells and the urge to procreate, or rather it inhibits the development and function of gonads. Another substance is serotonin that is needed for acting as a chemical neurotransmitter of electrical impulses in the synapses of nerve cells. It is interesting to note that serotonin has the same chemical structure as some hallucinogenic substances. Serotonin is transformed into melatonin only in the pineal gland.



The bean-shaped **pituitary gland**, on the other hand, lies on the bottom of the interbrain and is connected by a stem to the third ventricle of the interbrain. It is the central organ for hormonal regulation. It controls and influences all other hormonal organs which report back to the pituitary gland. The posterior lobe belongs to the nervous system; in the anterior lobe glandotropic hormones are produced that control the sexual life, especially the activity of lactation, the ovaries or rather the female menstrual cycle and the testicles. According to **Robin Baker**, the real magnetism-perceiving organ of a human being is situated in front of the pituitary gland. The nasal parts of the optic nerves leading from the eyeballs to the brain, cross over in front of the pituitary cone, at the entrance to the brain. This crossing of the optic axes provides an important anatomical basis for taking hold of the self-consciousness. It is also a point in the region of the pituitary gland where contemporary human beings normally experience their centre of waking consciousness. The pituitary gland is in contact with the etheric *forehead chakra*, the so-called two-petalled lotus.

Both these glands in the head region of a human being are, then, in various respects interwoven with the etheric sphere of light, as well as with the subterranean sphere of electricity. In this regard contemporary humans have the option to either consciously develop their morality with the aid of altruistic acts of will, penetrated by love, or to yield to base inclinations and instincts laced with uninhibited selfishness that can pour into them. And this is not without consequences for the future development and function of these two glands. In this context **Rudolf Steiner** drew attention to the fact that an etheric stream of light flows through the human being, that links heart and blood stream to the pituitary gland, and that, in certain moments, makes manifest (for the one who has developed such a supersensual perception) a person's moral principles and qualities.(21)

In a human being a multitude of forces, effective at a variety of levels, are normally integrated into the whole structure in such a way, that even effects of catabolic forces are, in the right place, beneficial to the human household as a whole. In this connection one only has to think of the physiological digestive process that, with juices and acids in their proper place, performs a life-preserving function in the gastric and intestinal tracts that can, however, in the event of a perforated stomach, initiate death. Similarly, there are also forces in the human etheric and astral edifice that reveal their destructive properties as soon as they come into a different constellation of forces to that, initially intended for them, or worse, are projected outward.(22)

According to **Rudolf Steiner's** investigations in spiritual science, there is in the human being, behind the conscious sphere where memories are reflected, a subconscious region into which a substantial destructive focus has been introduced. This destructive focus is a necessary basis for the development of rational thinking and thereby egohood. For human intellectualism is by its nature and its impact on the physical body and physiology, destructive and substance-destroying. If the force of this destructive focus ventures forth from its strictly limited domain, or worse, if it is projected outward then it will, in accordance with its nature, reveal itself as destructive viciousness, as evil.(23) In relation to the two cerebral glands it is of great importance that human recollective activity, that is the imprinting of the recollection, is connected to two etheric streams that are differentiated by the greatest possible tension. These streams have their physic-sensory counterpart in the heart region, the pineal gland and the pituitary gland.

"The physical organ that wants to form the memory-image is the pineal gland, while the pituitary gland is the recording part."(24)



We can only allude here to these complicated anatomic-etheric connections. However, today such knowledge has to gradually be brought into consciousness, penetrated and comprehended.

It becomes apparent, then, how in the cerebral regions described, the conscious domain in a human being's life, and the superconscious or subconscious one respectively, penetrate each other. Disturbances caused by abnormal electrical fields can, therefore, lead to permanent neurological defects and behavioural disorders (25); in addition, they demand increased strength of consciousness from human beings, with which to combat the negative impact on their sensory-supersensible organs. It also becomes evident how human thinking and discerning, sensory perception, a sense of direction in dealing with time and space, as well as all hormonal and reproductive processes are interwoven. There exist, in fact, mysterious connections between light and reproduction on one hand, and electricity and reproduction on the other one that can, however, not be discussed in detail here. Electrochemical processes occur in neuro-sensory activities as, for example, in the fertilization of the egg-cell. In the spiral human DNA, the basic building blocks of genes, the genotype, etheric light forces and electromagnetic forces work together in a particularly complicated fashion.(26)

Developments in bio-technology are still in the early stages. With the aid of ever more complicated computer systems, bio-industrial engineers attempt to decode genetic information of living beings, arrange and organize it in order to use DNA as the most important 'raw material' in a new branch of science, and as a guarantee for enormous profits on the stockmarket. Already for **Marshall McLuhan**, 'prophet' of the media age, computer and telecommunication technology was nothing more than a protruding extension of the human nervous system, of the 'electrical human being'. Now efforts are directed towards transferring, in the long term, the emotional life of a human being to the world of machines, or uniting the two because, according to the bio-engineers, the body is only a temporary vessel for the information that led to its coming into being.(27)

Discovery and application of electrical forces was unavoidable and an evolutionary necessity. However, this 'release' in the electrical sphere demands from human beings themselves enhanced alertness of consciousness and increased efforts to muster inner resources by sustained spiritual work, in order that the down-pressing forces connected with electricity can be countered and the equilibrium restored. Because in the natural energy of electricity a spiritual force is hidden that has the tendency to diminish human moral values and attempts to drag human beings down to a less than human level leading into subnature, meaning into a morally low and spiritually dark domain.

"Subnature must be recognized for what it is. This is only possible if humanity will rise at least as high in spiritual perception to supersensible supernature, as it has technologically descended into subnature. (...) Electricity (...) it must be recognized for its power to lead from nature to subnature. But humans must beware of joining in the descent."(28)

Now the open question is, whether we human beings are able to keep pace with the accelerating material world, and counter-balance with our own spiritual substance and individual strength of consciousness the forces rising up from technology and natural science, in order to avoid being plunged into the abyss, too. Resisting technological developments would be absurd and, in the light of human evolution, harmful. However, precisely in view of technological revolutions, what is demanded of the human being now more than ever, is the conquest of spiritual apathy and self-centred delusions, the need to wake up and to consciously attend to individual spiritual tasks. It is true though, that by combatting and transforming such strong opposition, humans are to a far greater degree able to contribute to universal evolution.

