

Risks Induced by Electro-Magnetic Fields?

Current state of the discussion By Dr. rer. Nat. Ulrich Warnke
Extract from the CO^{MED}, issue 7+8/99

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Information leaflet, free of charge Article No.: 654

We are permanently living within the range of electric, magnetic and electro-magnetic fields; under the open sky, but also in any room surrounded by walls. These fields make it possible to communicate from any position via radio and television receiver or mobile phone, radar and satellite, the most recent achievement being "control beams" to support navigation through the traffic.

Beside these high frequency fields, we are also constantly surrounded by low frequency power fields, generated, for example, by high tension lines, railway electricity or kitchen devices and lines.

All field powers are overlapping each other.

In some places, this leads to an agglomeration, in others the fields extinguish each other. We have no physical sense which is adequate for making us consciously aware of these fields, and as a result of this, we cannot know, where these fields are strong or where they are weak.

These are the decisive questions:

Can these fields take an influence on our health, and if so, how strong do they have to be to do so? What are the limit values? How large is our risk? What is the attitude of the politicians?

First and foremost, we can make use of two methods to receive answers to our questions:

1. With the help of material from epidemiological meta-studies, strain tendencies affecting similar population collectives are formulated.
2. Standardised experiments with humans and other organisms, as well as laboratory experiments in vivo and in vitro, show up certain working mechanisms.

Only when both methods form a unit in the interpretation of their results, that is, when the working mechanisms support the results of the epidemiological investigations, can we speak of true effects. All over the world, a huge research expenditure is being carried out to find answers to these questions. No definite conclusion could be drawn until now. However, more and more points towards prophylactic measures making sense. 14 out of 44 insurance companies have stated in interviews, that EMF risks have already been taken out of the contract, or else they have additional agreements and extra charges. When investigating the problem, we will separate the effects of low frequency fields from the effects of high frequency fields. The working mechanisms of both fields show enormous differences.

Low frequency

When analysing the extraordinarily numerous scientific literature concerning the effects of magnetic fields in the frequency range between 50 and 60 Hz, it is not necessary to go into details.

The effects of low frequency fields known to this day have been collected and summarised very precisely and with a great sense of responsibility by scientifically working commissions under contract of public institutions.

1. In June 1998, after 18 months of work, an international commission of experts under contract of the National Institute of Environmental Health Sciences, NIEHS, USA, comes to the following conclusion, with a strong majority of the voiced opinions:

"Electro-magnetic fields (EMFs) are possible carcinogens for the human being".

The evaluation procedure was based on the regulations of the International Agency for Research on Cancer IARC. Thus classified, the electro-magnetic field ranges in one category with chloroform, DDT, lead, PBBs, carbon tetrachloride.

2. After nine years of work by the National Council on Radiation Protection and Measurements NCRP, commissioned by the US Congress, in which course all scientifically relevant investigations on the topic were critically evaluated, the committee (consisting of epidemiologists, health experts, molecular and cellular biologists and engineers of power supply companies) advises a limitation value of 0.2 micro-tesla for low frequency magnetic fields in 1995 (limitation value right now is 100 micro-tesla according to regulations, earlier recommendations were 400 and 5,000 micro-tesla). The NCRP advises the acknowledgement of this low limitation value at once for new buildings of children's day care centres, schools and playgrounds as well as for the installation of new power supply lines.

Quotation of one of the members of the committee, Dr. David Carpenter (School of Public Health, State University of New York in Albany):

„Any other type of (environmental) exposition with such strong grounds as the connection between electro-magnetic fields and cancer would lead to immediate legal regulations. The main reason for many members of the committee not to lay down strict standards was the enormous expenditure of such measures, making it unrealistic to carry them out.“

1. Already 1990, before publication of the results of a study by the American Environmental Protection Agency EPA, the following information concerning this topic was brought into the open:

"Low frequency magnetic fields seem to have a carcinogen effect on humans."

The completed study was never revealed to the public.

Superimposed disturbance oscillation

All these points, taken together, show that we should take care not to spend our days and nights in high magnetic, electric and electro-magnetic fields. In order to find the few existing unpolluted places, handy measuring devices are required. The values measured by these devices in the low frequency range should be a warning from the recommended limit value of 0.2 micro-tesla on. The devices should be inexpensive, they must guarantee a precision of at least 6 per cent for fields with 50 Hz, but should also be able to pick up high-frequency disturbance oscillation, commutating break downs, phase angles, transients and bursts during the process of measuring. Especially transients are impulses, which are prompted by various switching processes to superimpose themselves onto the basic sinus oscillation. Clean sinus oscillations are no longer available in the mixed network, additional disturbance can be detected all the time. This causes a problem.

Limit values

The limit value determined for the induction of the magnetic fields in the low-frequency range at the moment - 100 μT - was set up to avoid induced current densities in our body which are larger than its own current density. Therefore, in order to avoid a higher current density than two mA/m^2 (0.2 $\mu\text{A}/\text{cm}^2$), the fields with 50 Hz frequency must be limited to 100 μT in strength. This 50 Hz limit induction exists only in the immediate proximity of devices and lines, it is rather seldom in our normal surroundings. The induction of eddy currents in our organism is, however, not only dependent on the strength of the magnetic field, but also on the speed, with which the magnetic field is altered. If the field contains the quicker 100 Hz instead of 50 Hz, the highest current density permitted in the body is already generated by 50 μT , if the frequency contained is 1,000 Hz it is 5 μT and so on. The transients are rapid changes in the μs range, which generate comparably high induction peaks in our body during normal measured amplitudes, possibly higher than allowed by the valid regulation at the moment. This can already occur with a few 50 nT, values which can normally be found in our dwelling and working areas.

These transients have not been taken into account for any rules and regulations yet.

There is a discussion going on in America, whether these transients might be responsible for the cancer provoking effect. For this reason, we have developed new devices for the market to help detect these transients. Measurements have shown, that mainly machines with rotating axes, neon lights and monitors have the strongest transient emissions.

High frequencies

The sole criterion for determining the limit values of high frequencies is the temperature factor. We know, that fields with certain frequencies, analogue to the micro-wave oven in the kitchen, can lead to higher warming phases for water and other molecules.

If the temperatures are too high, the organism is harmed; therefore the heat induction is determined for each frequency area in question and the field strength is defined with a safety factor, remaining below a temperature increase of one degree.

Neutral research institutes all over the world have achieved results from their investigations concerning this topic, which lead to the conclusion, that the criterion "heat" does not seem sufficient for protecting the population from high frequency rays.

Determination of the pollution

In relations to the "heat criterion", the following values are obligatory:

- Complete body pollution of the population in general: 0.08 W/kg, detected in the complete body in intervals of six minutes
- Head, nape of the neck, neck; an average of 1.60 W/kg over each gram of body tissue
- Extremities: an average of 4 W/kg over every ten grams of body tissue
- HP IRPA-limit value of the power density:
- 30 to 300 MHz: 0.2 mW/cm^2 (2 W/m^2); at work 1 mW/cm^2 and
- 2 - 300 GHz: 1 mW/cm^2 (= 1000 $\mu\text{W}/\text{cm}^2$ or 10 W/m^2); at work 5 mW/cm^2 (Previously in Russia: 300 MHz - 300 GHz: 5 $\mu\text{W}/\text{cm}^2$)

Biological effects can be triggered off by lesser power density.

For the region below 10 MHz, safety limit values are non-existent. Statements concerning power density become useless, if several microwave fields are overlapping each other. The peak impulse capacity has not been recorded, only the average transmission capacity including the pauses between using the keys. Nor has the radiation angle been taken into account.

Mobile phones

Right now, there are about 15 million mobile phone users. For the year 2001, we have a prognosis of more than 30 million users. Until then, the base stations, working 24 hours a day, will have doubled up

to approximately 40,000. The average transmitting capacity may decrease slightly, with an average radio cell radius of 500 m, but whether this means rising or sinking electro-magnetic pollution for the individual cannot be foreseen today. Those concerned living within the range of the base stations have a feeling of being at the mercy of a technology with unknown health effects, because they have not been investigated yet. A lack of information concerning the problem and ignorance towards the worries of the population increase the fear in general.

Parameters taking influence on the individual:

- Capacity per channel, frequency, signal pulsing, number of emitters and type of aerial. In Germany, up to eight channels per transmitter are in use. A time rate of 217/sec is used per channel to transmit the compressed call. There is a very short pause in between. You can picture this as pearls on a chain. Depending on the frequency of calls, the pulse of a base station is increased: with two mobiles, it reaches 434 Hz, total occupation of the transmitter with eight mobiles achieves 1736 Hz.
- Distance (local or long distance zone) and geometrical relations as well as the terrain
- further structures of the surroundings, reflections
- time spent inside the field

You can find further parameters in the chapter "The Human Being as an Energy Collector".

Stagnation when attaining permission for erecting mobile radiotelephone units?

Probably due to uncertainties in connection with the question of health, in a verdict from 26.10.1998, reference no. 8S1848/98, the Verwaltungshof (Administrative Court) Baden-Württemberg demands an application to the authorities for obtaining a building permission to use houses, churches, universities and other public buildings as a base for aerial erection. Before this verdict, a contract with the house owner was sufficient as a permit. This verdict has grave consequences, even for already existing units.

Meanwhile, the WHO advises to avoid the neighbourhood of schools, kindergartens and other similar sensitive facilities for erecting aerials.

Interactions with technical control circuits

- The use of mobiles in hospitals is strictly prohibited; in the past, fatal accidents have occurred, because the use of mobiles prevented special machines from starting.
- Many airlines also forbid the use of mobiles on their planes at certain times (risk of prosecution with a prison sentence of up to two years).
- Using mobiles in cars without external aerial also bears risks; air bags and anti-locking systems may be triggered off.

Biological effects

In March 1999, a new summary concerning the effects of high frequencies on biological systems was published by the Royal Society of Canada, "A Review of the Potential Health Risks of Radio Frequency Fields from Wireless Telecommunication Devices". This most recent source was taken into account in the following short review. The study proved for the first time:

High frequency fields with intensities far below the heating influence can trigger off effects in the organism, releasing biological effects.

To this day, we cannot give a definite answer to the question, whether these effects promote illness, because of remaining unexplained conflicts. For final clarification, further research is required.

What are the known facts concerning the influence of high frequency radiation?

- Cell proliferation

Increased cell division, increased cell growth. After an exposition of thirty minutes: decrease of growth

- Metabolic disorders

Increased oxidation of the functional enzymes.

- Heart and circulation

Alterations in blood flow – even in the brain (partially decreased, but also increased). Changes of the tension of blood vessels. Influence on the NO synthesis. Changes in the regulation of circulation, forced disturbance of the heart rhythm.

- Calcium efflux

Modulation of the RF in the low frequency mode alters the Ca^{2+} efflux and calcium regulation.

- Alterations in the activity of enzymes

Increase of the enzyme ornithine decarboxylase with amplitude modulation of the high frequency radiation in low frequency mode, also with digital telephone fields. The stronger the fields, the stronger the enzyme stimulation.

Tumour promotion caused by this enzyme has not been verified yet; all breast cancers, however, are coupled to an increased enzyme activity.

If a certain enzyme of a heat-resistant bacteria is exposed to a heat source on one hand, and to a microwave (10.4 GHz) on the other, each of which lead to a temperature of 70 degrees, the microwave results in destruction of the enzyme, while the heat source, applied for the same length of time, has no negative effects. This proves, that the temperature is not the effective mechanism of destruction, but the radiation interaction of the microwave.

- Influence on the hormones

Hypothalamus-pituitary-adrenal cortex-system with the hormones ACTH and hydrocortisone is disturbed. This causes disturbance of the immune system and promotes distribution of micro-organisms (yeasts, bacteria).

- Melatonin

Experiments with high frequencies insufficient, several investigations, however not reproducible, find decrease.

- Immune reaction

At the beginning of radiation, an increase of the immune system activity can often be detected, but after a few weeks there is always a suppression in the range of $50 \mu\text{W}/\text{cm}^2$.

- Trace elements in the blood

Influence at $10 \mu\text{W}/\text{cm}^2$, 2.375 MHz, eight hours daily for three months.

- Cell membrane effects

Transportation of ions Na^+ and K^+ is disturbed. Na^+ accumulates in the cell and draws water. Membrane channels are influenced, the proteins are rebuilt, the membrane fats also. The order of the membranes is disturbed. The activity of free radicals is increased, they harm the membranes.

- Blood-brain barrier

Permeability of the blood-brain barrier is increased, but not all experiments come to the same conclusion.

- Behaviour

The opioid system is influenced negatively, for example the experience of happiness. Panic attacks, neuroses, psychoses are possible. An influence of microwaves on learning ability, memory, time awareness and attentiveness was found in rats and monkeys, at a very low specific absorption rate.

Wireless telecommunication and brain tumours

When asking the question, are tumours caused by wireless telecommunication, we are confronted with a problem: digital mobile phones have become wide spread in the last ten years only, while the latent period of tumour development is longer.

There are first scientific studies about the tumour risk of persons using wireless telecommunication like mobile phones. A Swedish epidemiological study (accepted by the „*International Journal of Oncology*“, but not published yet), has found out, that persons who hold their mobiles on their right ear run a risk with the factor 2.45 of developing a tumour on the right side of their head, while for person using the left ear, the risk factor for developing a tumour on the left side is 2.40.

A result with the same tendency was just published by a group of the *American Health Foundation* in New York, stating, that the side of the head normally exposed to the mobile phone runs the highest risk of tumour development. Furthermore, the statistically significant higher risk of tumour development of the neuroepithelial layer by the factor two to three was detected (source: Microwave News and EMF-Monitor). These results match a new result from the laboratory. In 1999, Tice et al. found, with statistic significance, that cells exposed to wireless radio rays with load values of SAR 5 and ten kilograms for 24 hours, suffer three times the usual amount of a chromosome anomaly. In 1999, Goswami et al., with the financial support of Motorola, found out, that certain properties laid down in a gene can be altered by wireless rays. The activity of the proto-oncogen fos is doubled up when exposed to a radiation of 836 MHz. If the microwave radiation is pulsed, like with digital wireless radio, an activity increase of a further 40 per cent is recorded. In genetically manipulated mice (deactivation of the cancer-suppressor gene), malignant tumours were generated 2.4 times as often after radiation with D and E net signals, 20 minutes a day, for 18 months.

Effects on brain functions

One mW/cm^2 is the maximum affecting the head of a mobile phone user. Natural power densities within the organism reach $0.001 \text{ mW}/\text{cm}^2 = 1 \mu\text{W}/\text{cm}^2$. Brain functions of humans are changed under the influence of mobile radio high frequencies (Alan Preece, *University of Bristol*), but do not automatically cause illness.

According to experimental results, approximately 60 per cent of the nerve cells of bird brains are affected.

However, these results have not been reproduced yet.

Symptoms recorded by humans are:

Epileptic attacks, **sleeping problems**, RFR-syndromes“ or „*microwave radiation sickness*“, headaches, depressions. A part of these effects is definitely, the other part indefinitely correlated to high frequency radiation. Certain persons can even feel the radiation.

What has been overlooked previously

Without any doubt, the human being uses the same quality of electro-magnetic powers for building up his own organism and its functions as those established technically all around him, making an influence inevitable.

Evolution constructs us with existing energy

The human being has to be seen in connection with the conditions of his genesis, the powers which build him up and preserve him, the world, in which he lives and from where he takes the compounds for his structure, in short, he has to be seen in his holistic relationship, his universal integration.

In every phase of its genesis, the system human being has been dependent upon the energies and power fields working in its surroundings.

Under all circumstances, effective power fields are compatible with the energies and power fields of the system they are affecting. Therefore, power fields building up the human being are identical with power fields working on the surface of the earth. For this reason, it is plausible to assume, that we have always been at the mercy of the external energies within evolution. These external energies alone, which actually have constructed us and built us up, made it possible for us to evolve. From the very first second on, cosmos, earth, nature were pure quantum interaction. The human system uses external energies for an optimal build-up, for optimal functions and for the regulation of the homeostasis. Without these premises, evolution would not have designed us the way that we are.

Which natural energies have always existed and have remained to this day?

1. Energies in food (external energies taken over as internal energies) are mainly binding energies of the molecules and individual energies of the electrons, both are primarily bound in plants by the sunlight.
2. New formation of binding energies (internal energies) between atoms and molecules, given from the DNA as a plan for building the organism.
3. Energies emerging from the cosmos and from earth (external energies, advantageously precipitated via receptors).

The following ray emanations are effective on the surface of the earth:

arth ionosphere resonance oscillation

- 1 Atmosphere window – passage way for
 - 1.1 sunlight
 - 1.2 high frequency ray emanation from the cosmos
2. atmospheric ray reflection (earth rays stimulate air molecules)
3. earth rays

The quantum construction human being

We are made of nothing other than atomic nuclei and electrons.

The space between these two elementary building components is immense – seen relatively. If you could blow up the atomic nucleus until it reaches the size of a football, then you would find the next electron in a distance of approximately ten kilometres. The space between is „empty“. 99.99 per cent of our body volume consists of this „emptiness“. If this „emptiness“, this „vacuum“ would be removed from a body, it would become so tiny, a microscope would be required to see it at all, but the weight would still remain the same.

What happens in this "vacuum"?

Here, all the energetic conditions for the power interaction, which builds up molecules and forms matter to enable us to function, take place. Finally, everything that happens with us and everything we do, has its origin in the influence of energy on our „vacuum“. All actions we know as functions of the hormonal, enzymatic or immune system, are caused first and foremost by the shifting of energy in our „vacuum“.

But also the effect of our psyche on the matter of the body is generated by the control of this vacuum energy.

What has this got to do with health?

How can we become more familiar with this „new way of thinking“? Basically, the vacuum has all energetic possibilities within the condition of probability. The corresponding vicinity of a certain vacuum space is the decisive factor for the energy size, which is placed in reality. Precondition for this reality placement is the energetically „suitable“ size, for instance a resonance. Normally this space is limited to the corresponding wave lengths. Once this was called the observer effect in physics, today we call it fortification through „which-way-information“. If all pre-conditions are present, the wave of probability collapses, an energy particle like a quantum or a photon takes its place. This energy particle now creates a power effect, it shapes a reality.

This means, that not only reality, but also health, is created in the vacuum, in the exact way that was determined by our genes in the evolution.

The DNA functions by continuing to create new resonance bodies like proteins and by placing them in the right spot within a matrix, in order to allow the corresponding power bridges to build up our shape – this is identical with quantum transfer – to maintain it and let us function perfectly. The „long distance“ powers are based on oscillating electro-magnetic fields. The energy of the corresponding field is identical with the number of oscillations per second, that is the frequency. You could say, the frequency is the language of the atoms and molecules in our body, also of the cells, the organs and the control circuits. All things speaking in the same dialect, we could say, those able to understand each other, exchange energy and powers; information is encoded energy, i.e. pulsating electro-magnetic frequency.

With exactly these electro-magnetic powers, almost everything we call life can function.

For the new understanding, it is therefore elementary, that our health and illness is based on these processes, which transfer quantum physical powers in the vacuum. If we realise and accept, that illness is based on a disturbed transfer of powers, then we also have to start from there with all causal research and treatment: this means, not to look out for the masses, but rather to study the interacting electro-magnetic swinging and oscillations. All organic life exists within electro-magnetic biological fields – all “bio-regulators” like the communication structures antigen-antibody, enzyme-substrate or hormone-, mediator-, neurotransmitter-receptor, they all function within this quantum-physical space.

The construction human being is an energy collector

High frequencies can be absorbed, or they couple up via other mechanisms like time constants. Time constants stand for the life span of free radicals, for example. If the period of the life span is identical with the period of time of the half wave of an electro-magnetic oscillation, electrons may experience a spin-flip process, which means, that the free radical can no longer be easily neutralised and stays alive for a longer period of time to unfold its destructive effect. A spin-flip of the photon-electron spin takes place, for example, at 1.42 GHz, a frequency range which is exceeded by our technical frequencies. With the growing amount of free radicals being set free in our environment (ozone, nitric oxides) and the level of free radicals constantly growing higher, due to psychic stress and missing antioxidants in our body, there is a real problem connected to this mechanism.

Since free radical also attack genes, the restructuring of genes and tumour induction cannot be ruled out.

The DNA resonance with direct field influence lies between 2.4 and 8.5 GHz. Absorbers of energy within the organism, besides water, are most of all proteins, especially enzymes, which start actions due to alterations of their configuration and conformation. Functionally important are the proteins in membranes, which work as pumps, channel elements and aerial elements and regulate the permeability of matter transportation into the cytosol. A resonance bearing coherence domains is the pre-condition. The result is the conversion of standing waves into protein, the solitones, essential for the specific function.

Particularly the range of mobile phone frequencies, supported by the shape of the head, has a high penetration depth and reflexion (absorption resonance of the head: 400 - 900 MHz).

Caused by radial sandwich structures, i.e. by regular tissue layers with varying dielectric constants, as can be found with blood vessels and nerve coverings, certain electro-magnetic waves can be focused. Micro peaks in composite tissue also have a focusing effect. Metals in the area of the mouth and jawbones, like fillings, crowns, denture sets, attract the fields. This effect is ignored by the evaluation of pollution limits using dummies.

The important things happening are the following:

During communication between the reaction partners in the organism, the power density of the quantum radiation is not the decisive factor (power density W/cm^2 is the expression used for the number of quanta per surface). As an example, five quanta (photons) are sufficient for transmitting information to the retina. Hormone receptor partners, like the partners enzyme-substrate and antigen-antibody, also work with just a few quanta. This function is fortified as a result of the power connection in correspondingly activated cascades.

We come to the conclusion:

Enzymes use specific quantum energy for their tasks and get stimulated by resonant energies, also by microwaves coupled in from outside. A further quantum energy resonance range can be found with enzymes in the so-called temperature optimum, between 33 and 37 degrees Celsius. This range has been well described in previous publications.

The following rule is roughly valid:

The higher the frequency of the influencing electro-magnetic oscillation, the lower the penetration depth (an electro-magnetic oscillation of 24 GHz has a penetration depth of only 0.07 cm with a reduction of $1/e$ ($1/2.7$)). The reason lies in the high absorption by water in this energy range. This is an advantage for the transportation of energy by conduction (also for the heat conducting ability, for example). If a dry, horny upper skin layer is moisturised, the energy transfer is improved by several hundred per cent. If the horny skin is not moisturised, the energy can be coupled in via special

reception aerials. This principle of special coupling- in makes a selective use of the energy possible. The emanating electro-magnetic field is focused to the body electrolytes (as larger capacities) on surfaces with increased conductivity. This principle reminds us of the side line organs of a certain type of fish. Therefore, in quantum medicine, special attention must be paid to the artificial external energies – starting from microwaves, over to mobile phone frequencies, radar, wireless satellite transmission, and finally even to military technologies – because their frequencies, higher and richer in energy, cause a steadily growing direct interaction with our organism.

The quality of the electro-magnetic oscillations used in our body is completely identical with the artificially induced electro-magnetic oscillation in our surroundings.

At present, the rules and regulations do not heed any quantum moments in the body. The fact, that the technically generated high frequencies produce more than just mechanical heat, but take direct adequate influence on the bodies' own function and communication actions with their quanta, is simply cut out and overlooked.

In this way, the elementary role of the most important energy collecting centres of our organism is also underestimated:

As an example, in the lungs, more electrons per square cm inhaled air are turned over than there are stars in our galaxy, and each of these electrons transfers energy by way of quantum physics. The skin is also underestimated as a reception organ for quanta, while the blood itself makes an outstanding aerial and must be looked upon as a transmitter of quantum energy, which can transmit quantum energy quite different from simple heat. All this knowledge has never been laid open by the orthodox medicine, but it plays an extremely important role for our health.

What is the role played by our psyche?

The vacuum energy of our body can always be influenced from two sides:

On one side, there are the energetic influences of the environment, the other side is what we call our spirit and soul, in other words, our psyche.

There is proof, that the purely psychic expectation of our environment making us ill, can harm the body functions, even if no injurious environmental agents whatsoever are affecting us.

The spirit uses the conscious for setting its goal and for power transfer in exactly the same way as the electron uses the quantum or photon for power transfer, this can only take place in the "vacuum". The conscious focuses on the goal, the will, as energy transfer, makes way to the goal.

In this way, the conscious controls the matter of our body.

As long as these processes are not fully comprehensible, one might think, that mystic has returned to the hard reality of science, especially since unexplainable, very strange and almost mystic moments take place in and around the nucleus or the electron, which definitely have a far reaching effect on our lives. This includes the so-called "non-locality", also called EPR effect (Einstein, Podolsky and Rosen). It is all about certain quanta, which can be interlocking, e.g. twin photons, which may emanate from our normal light sources, but also from our bodies. If one of these quanta is influenced somehow, the same also happens to its twin. This is something special, because it works without being dependent on space and time. As soon as one photon has reached California or any other galaxy, but the other one is still circling through my body, any effect taken on my photon will instantly trigger of the exact opposite, but otherwise completely identical effect on the other photon in the far distance. A further fascinating fact: The DNA never or very rarely sets free its electrons for interactions, while at the same time 98 per cent of the nuclei and electrons are completely exchanged within a period of approximately 5 years. There must be an important reason for this fact, since the substance we are talking about bears our inheritance – the same electrons could be found in there already 30,000 years ago. Something intelligent like information storage must be taking place, because the DNA makes sure that we always find the exactly suitable molecule partner and the correct energy transfer for each newly generated resonance body

Now how do we function?

Due to the DNA, we have been given a stabilised vacuum energy by resonance, shape and matrix, which works as a "wise automatic mechanism for function", and this "wise automatic mechanism for function" is modulated by faith, which is formed out of feeling and will and triggered off by everyday experience, in other words, by conscious and subconscious powers.

What is the outcome of this quantum mechanical process for the functions of our life and for our health?

On the base of this mechanism, totally new aspects of psychosomatics arise. If we are scared or afraid of an unknown factor – for example "electric/magnetic smog", we create realities in our bodies (the release of hormones like corticotrophin-releasing hormone among others), which can finally make us ill.

On the other side, without a shadow of doubt, a pleasant, quiet state of the conscious mind can protect us from the physical influence of "electric/magnetic energy".

The exact cascade, including sensible examples for its practice, is listed in the book „Die geheime Macht der Psyche. Quantenphilosophie - die Renaissance der Urmedizin“.

A new physical approach

A new way of thinking supplies us with a highly interesting approach to coming research:

Whenever electro-magnetic powers interfere in such ways, that they are deleted in the vacuum, the remaining scalar wave (synonym with the Tesla or longitudinal wave) comes into action. The scalar wave can interact with our body matter, which has non-linear properties, without weakening at all. According to several different specialists, it is quite possible that we have been going in the wrong direction in our research on "electric smog". At the moment, we are working on the topic in my working team, we will come to a conclusion in the near future.

Quintessence

The human body and nature work with the same quality of electro-magnetic oscillation as the technically generated oscillation for communication. Interaction is therefore inevitable. Certain clues give reason to believe, that the technically generated oscillations superimpose a quantum disturbance information onto strategically important positions, leading to dysfunction and finally to illness.

Responsible committees come to the verdict, that further investigation is necessary, in order to decide, whether this interaction is harmful to our health. According to scientific criteria valid at the moment, experiments must be reproducible at any time, before the results are acknowledged. Non-reproducibility of experiments with humans under the influence of radiation is caused by the impossibility to exactly determine all influencing values like digestion, psychic mood, physical-meteorological parameters of the environment, interference in other oscillation areas and many others

All our own functions are complex electro-magnetic patterns, which are continually changing within fractions of seconds.

There is an almost infinite number of pattern constellations of this kind. No scientist will ever be able to completely determine these patterns and their interactions with external energies. This shows, that the experiments are doomed to fail right from the start. We need a new way of approaching the problem, a new interdisciplinary scientific culture, by accepting plausibility and coupling precautions to the results politically.

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