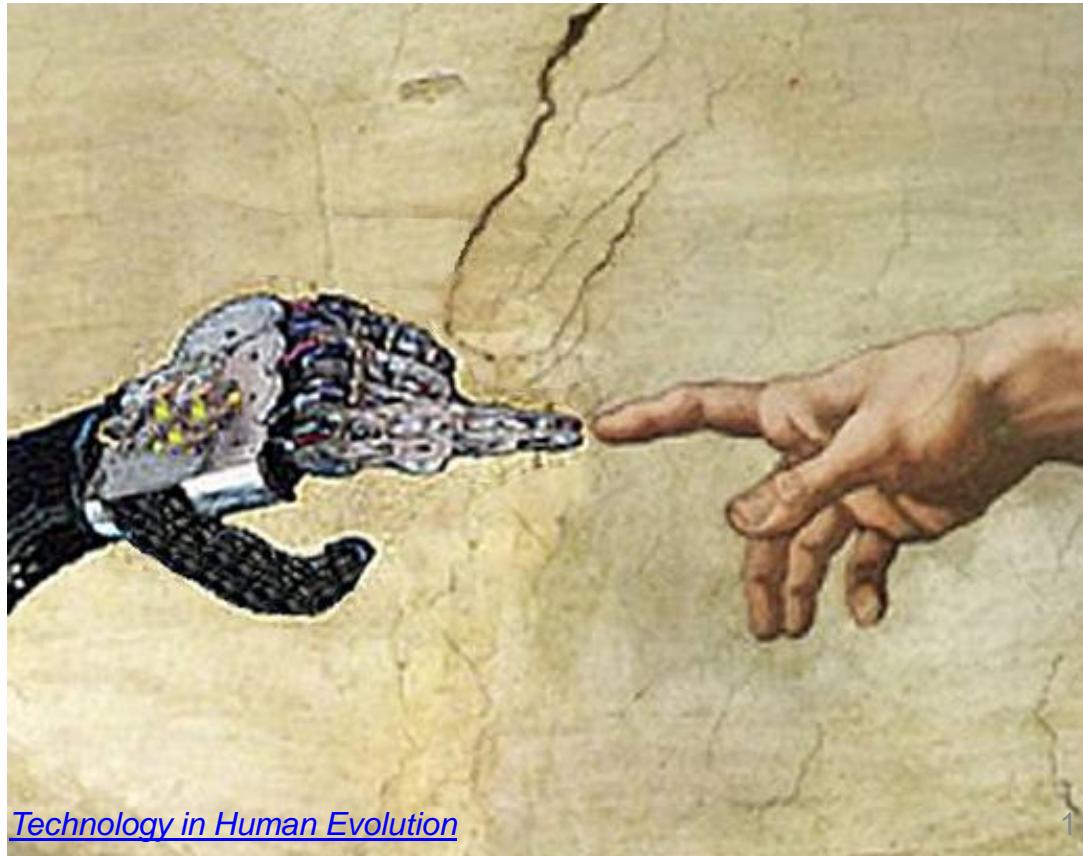




# MERGING THROUGH RHYTHMS AND ETHERS

Exploring The Western Path



**Hawthorne Valley**

Andrew Linnell

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[www.thechristianmysteries.com](http://www.thechristianmysteries.com)

# SCHEDULE

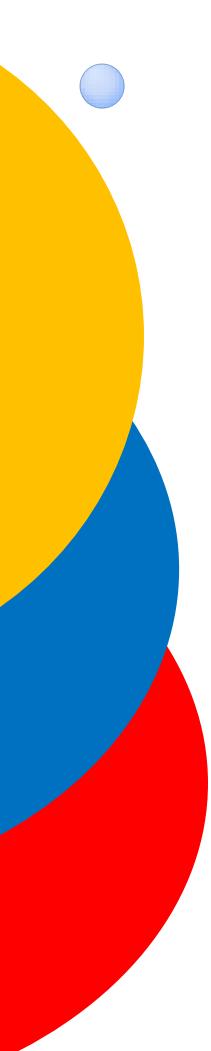
[www.thechristianmysteries.com](http://www.thechristianmysteries.com)

## March 24, 2017 Lecture

- 19:00 – 20:30 Technology and the Human Body – The Western Path

## March 25, 2017 Workshop

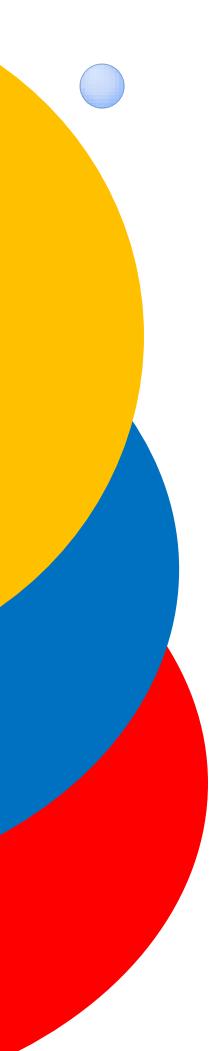
- 08:45-09:00 Registration, social time, tea/coffee
- 09:00-09:15 Welcome, Introductions
- 09:15-10:30 **Merging Through Rhythms and Ethers**
- 10:30-11:30 The Three Movements with Natasha Moss
- 11:30-12:30 Discussion: Protecting, Counteracting, Confronting
- 12:30-01:30 Lunch (BYO) together
- 01:30-02:30 Mythology and Facing the Future Without Fear
- 02:30-03:00 Eurythmy exercises and tools for balancing technical work
- 03:00-04:00 Structured Discussion: The Challenge of Our Times



# ONE OF STEINER'S GREAT GIFTS

## His Perspective on Technology

- The Temple Legend, 1904-05
  - The Reappearance of Christ in the Etheric, Jan-May 1910
  - The Etherization of the Blood, Oct. 1911
  - Individual Spirit Beings and the Undivided Foundation of the World, Nov. 1917
  - Spiritual Beings in the Heavenly Bodies and in the Kingdoms of Nature, April 1912
  - Balance in the World and Man, Nov. 1914 *Note the season*
  - The Karma of Vocation, Nov. 1916
  - The Karma of Materialism, July 1917
  - The Fall of the Spirits of Darkness, Oct. 1917
  - Secret Brotherhoods, Nov. 1917
  - The Challenge of the Times, Nov-Dec. 1918
  - Influences of Lucifer and Ahriman, Nov. 1919
  - Materialism and the Task of Anthroposophy, Apr-Jun 1921
- } *Breaking the secret power*



# IMPORTANCE OF WHO BRINGS THIS

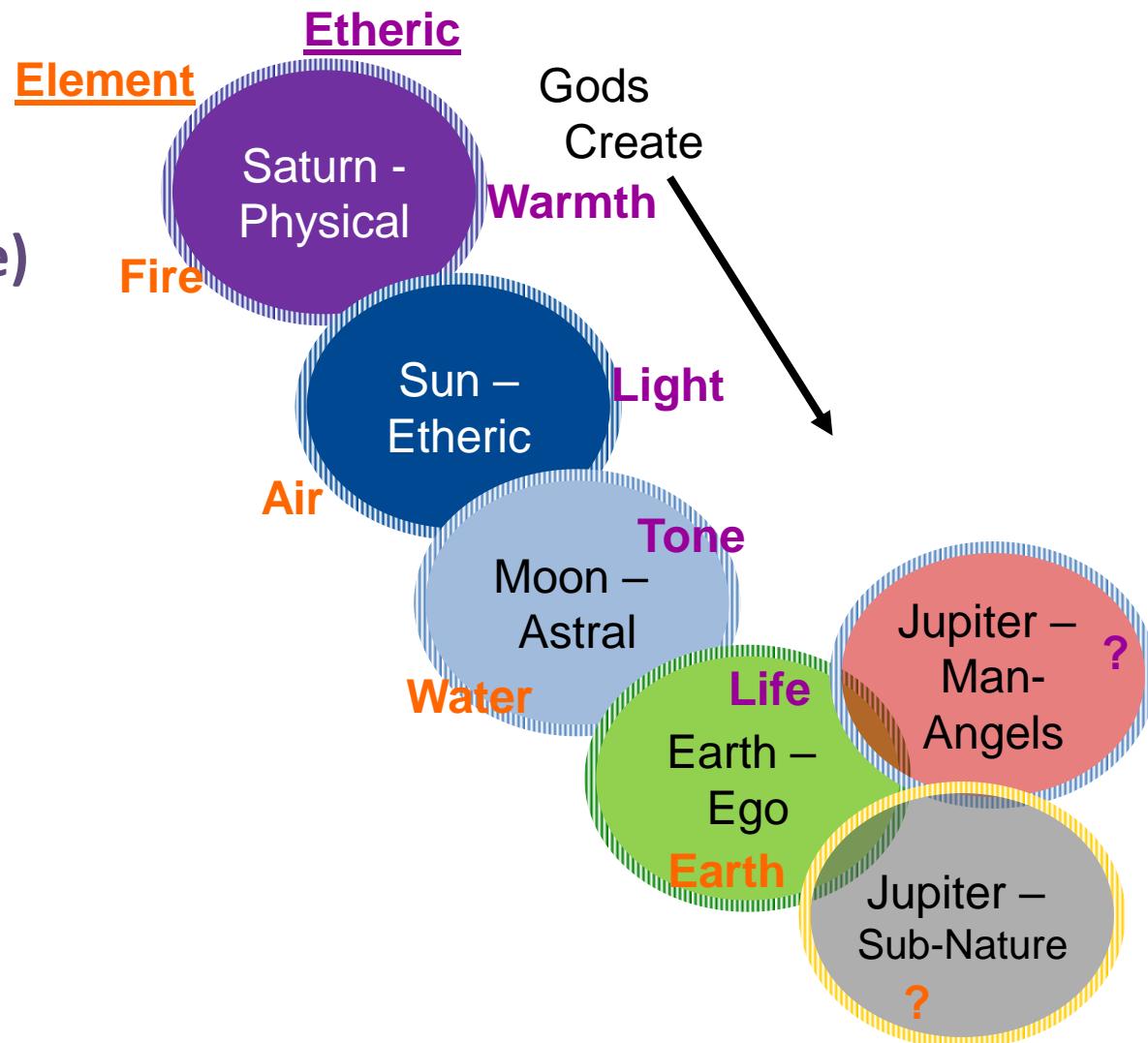
- “Where this kind of thing goes on, the wish to yoke up human strength with the strength of machines is always involved. **It would be quite mistaken merely to oppose these things.** They are not going to fade away; they are on the march.
- The **only question** is whether in the course of world-history they are going to be **brought on to the scene** by men who are **unselfishly aware** of the great aims of earth-evolution and wish to shape these developments for the healing of mankind, **or by** groups of men who want to use them for their own or the group's **selfish ends.** ***That is the issue.***”
- -- *The Wrong and Right Use of Esoteric Knowledge*, lecture 3, 25Nov1917, Dornach, GA 178

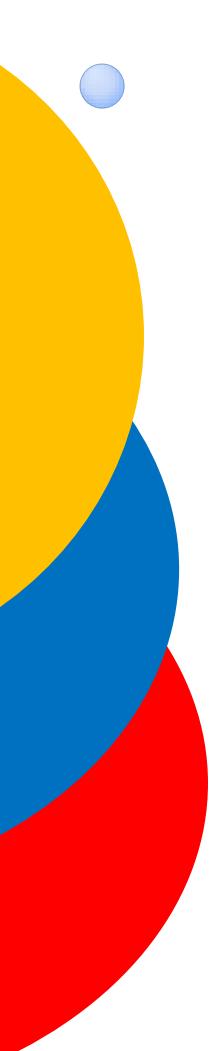
# RHYTHMS, ELEMENTS, AND ETHERS



# EVOLUTION OF ELEMENTS AND ETHERS

- Life (atom)
- Chemical (tone)
- Light
- Warmth
  - Fire
- Air
- Water
- Earth





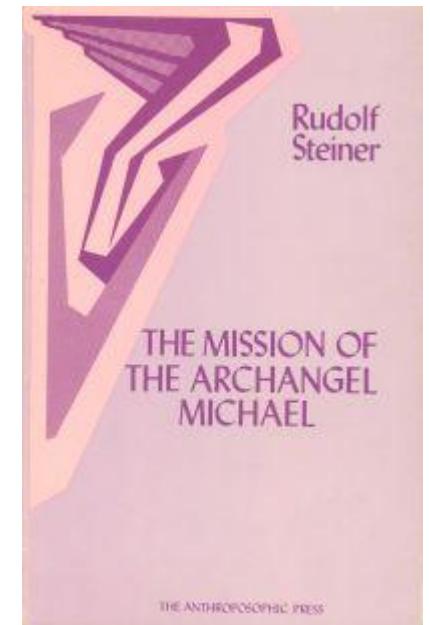
## FOR EXAMPLE: WATER



- Could we breath water and still be human?
  - Atlantean water-air
- What about in the future?

# BREATHING AND YOGA

- When Yoga was developed, we experienced the air itself as ensouled
  - The air is no longer ensouled
  - Moral impulse detectable on exhalation
- What else “breathes”?
  - The Senses, refined breathing
  - What do they breathe? Light
  - Ether-based
- The New Yoga
  - This will help lead humanity into its ascent
- The Mission of the Archangel Michael, Lecture VI, The Ancient Yoga Culture and the New Yoga Will, 30Nov1919



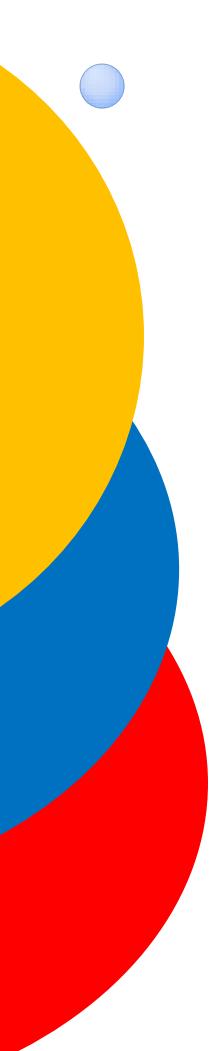


Mystery-Center Technology

# MORAL TECHNOLOGY

- Immediate future:
  - Machine will only work when it detects a good moral impulse
  - **Interface** to detect moral impulse
  - Detecting a moral impulse
    - Etheric vibrations from Astral/Ego
    - Wave hand (?)
  - Need: wearable robotics
    - No hacking, no passionate mistakes
- Future: vibrations drive machine
  - Keely, worked only for him
  - Relationship to 'Etheric Technology'

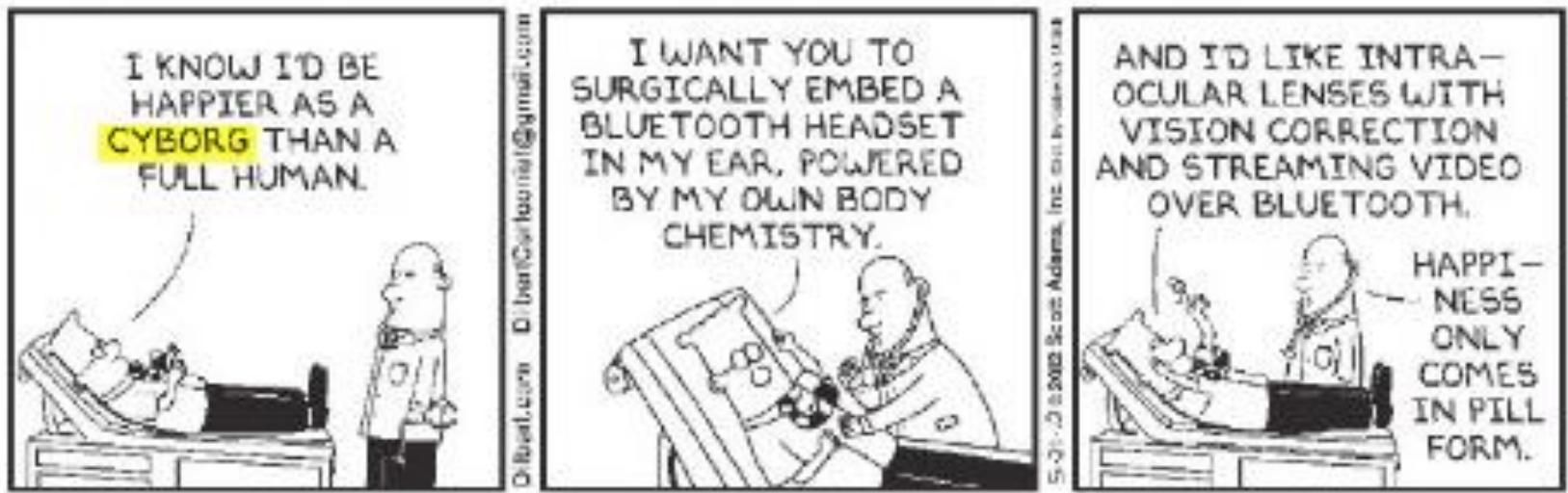




# MYSTECH: MYSTERIES OF TECHNOLOGY

- Currently sponsored by The Center of Anthroposophical Endeavors (CFAE) of Seattle, WA.
  - Non-profit, started in 1982 as Friends of Anthroposophy
  - Founded
    - Golden Garden Waldorf School and Seattle Waldorf School
    - Two puppet theaters
  - Hosted hundreds of lectures, workshops, and performances
- MysTech: COO, Frank Dauenhauer; [CTO, Andrew Linnell]
  - Graduate of High Mowing, class of 1984
    - First High Mowing class to be introduced to the technology course developed by Andrew Linnell and David Mitchell
  - CFAE board member since 1996
  - Became CFAE Executive Director October of 2016
- Membership to support R&D
  - Moral interface to machines
  - Journal, website, classes

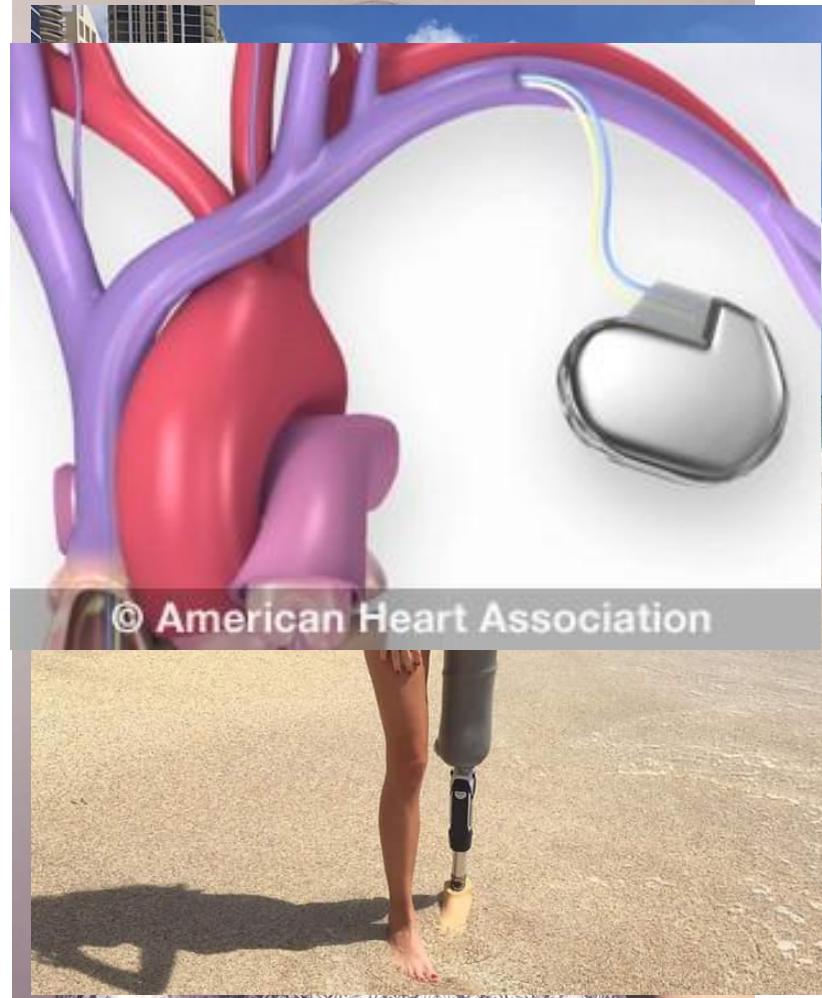
More info at: <http://rudolfsteinerbookstore.com/product/mystech-membership/>



MACHINES HAVE ALREADY ENTERED OUR PHYSICAL BODY!

# WHAT CAN WE FALL IN LOVE WITH?

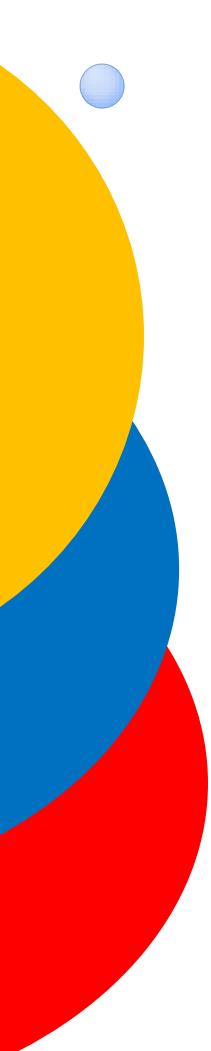
- Mate missing a finger?
- Missing an arm?
- Or a leg?
- Missing an arm & a leg?
- Can we love a person
  - With a pace maker?
  - With bionic eyes?
  - With a transplanted face ?
  - Who is deceased?
  - Who we know only through their avatar?



# RELATIONSHIP TO OUR BODY EVOLVES

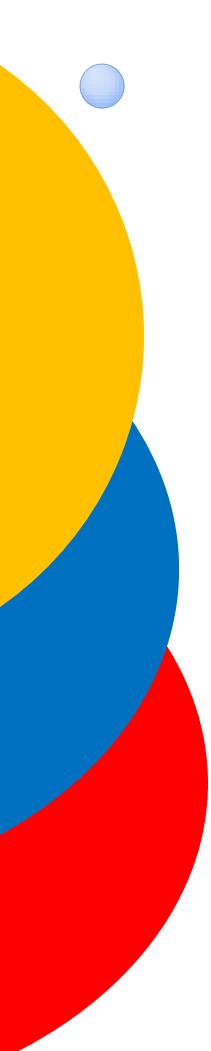


- Like the Ego, Technology is a double-edged sword
- Slippery slope from heart pacers to surrogates



# MICHAEL'S ROLE ON PHYSICAL BODY

- “... human souls, even while on Earth, will be **able to go across into the bodies** of those to whom they have done some special hurt and to **receive the other soul into their own body**.
- That will be when the Earth herself will have passed into quite **new conditions**.
- Yet it is also being prepared for by the actual and impending change of which I have been telling, and which is coming about in the spiritual world **through the leadership of Michael.**”
- R. Steiner, *Man's Life on Earth and in the Spiritual Worlds*, lecture 6, London, 19Nov1922, GA 218



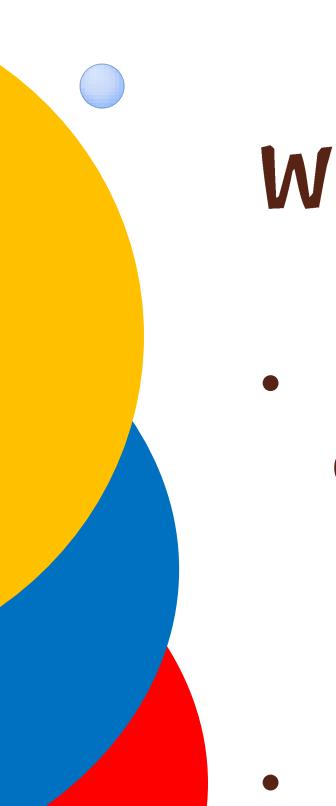
# BODY AS VEHICLE FOR LIFE ON EARTH

- “We are in fact emerging from the epoch when each of us had, so to speak, his own continuation to himself as to the physical body. In the new epoch that is now beginning — brought on by the present leadership of Michael — we shall work at the **spirit-seeds of the physical bodies** of men in such a way that **one works for another**.
- Moreover, as our incarnations of the Earth go on, this will lead even further. For in thus working for one another in the spirit, **we shall prepare** for a yet later time [to tell the character of which will sound completely strange and paradoxical, yet it is true].”
- R. Steiner, *Man's Life on Earth and in the Spiritual Worlds*, lecture 6, London, 19Nov1922, GA 218

# ROBOTS FOR SPACE EXPLORATION

- Lack of gravity dangerous for human travelers
- Too far away for surrogate (remote) manipulation
- Need for autonomy, ‘self’ driven actions, reactions
  - Astrobee: flies around the International Space Station
- Will such robots remain “in space use only”?
  - Autonomous vehicles
  - Humanoids



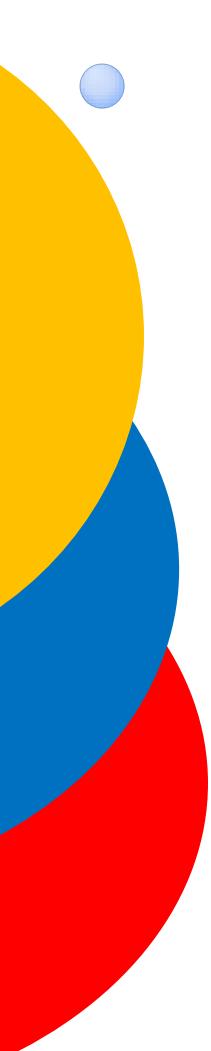


# WESTERN ESOTERIC PATH

- Rudolf Steiner indicated that three occultisms would be developed:
  1. East: Mysteries of Birth; Eugenic
  2. Central: Mysteries of Health and Healing; Hygienic
  3. West: Mysteries of the Human-Machine: Mechanical
- Mechanical Occultism
  - Related to resonances, frequencies between Human & Machine
  - Moral vibrations could be used to start & operate a machine
- How can this be developed?
  - Transition: robotic replaces physical body
  - Lowest member will be etheric body by 6000 AD

THE  
CHALLENGE  
OF THE  
TIMES

Rudolf  
Steiner



# RUDOLF STEINER ON MORAL TECH

- “The spiritual-etheric shall be placed in the service of outer practical life.
- The **emotion** in a human mood will be **transmitted in wave movements** to machines, between the dying forces of the nervous system and the **external power** of the machine.”
  - – 13Mar1917, from the *Schiller File* (note: lecture for this quote NOT in rsarchive.org)
- “What is expressed by the Tau is a driving force which can only be set in motion by the **power of selfless love**.
- It will be possible to use this power to drive machines, which will, however, **cease to function** if egoistical people make use of them.”
  - – The Temple Legend, lecture 20, 2Jan1906, Berlin, GA 93

# ALREADY WE CAN DETECT YOUR MOOD

- [MIT](#)

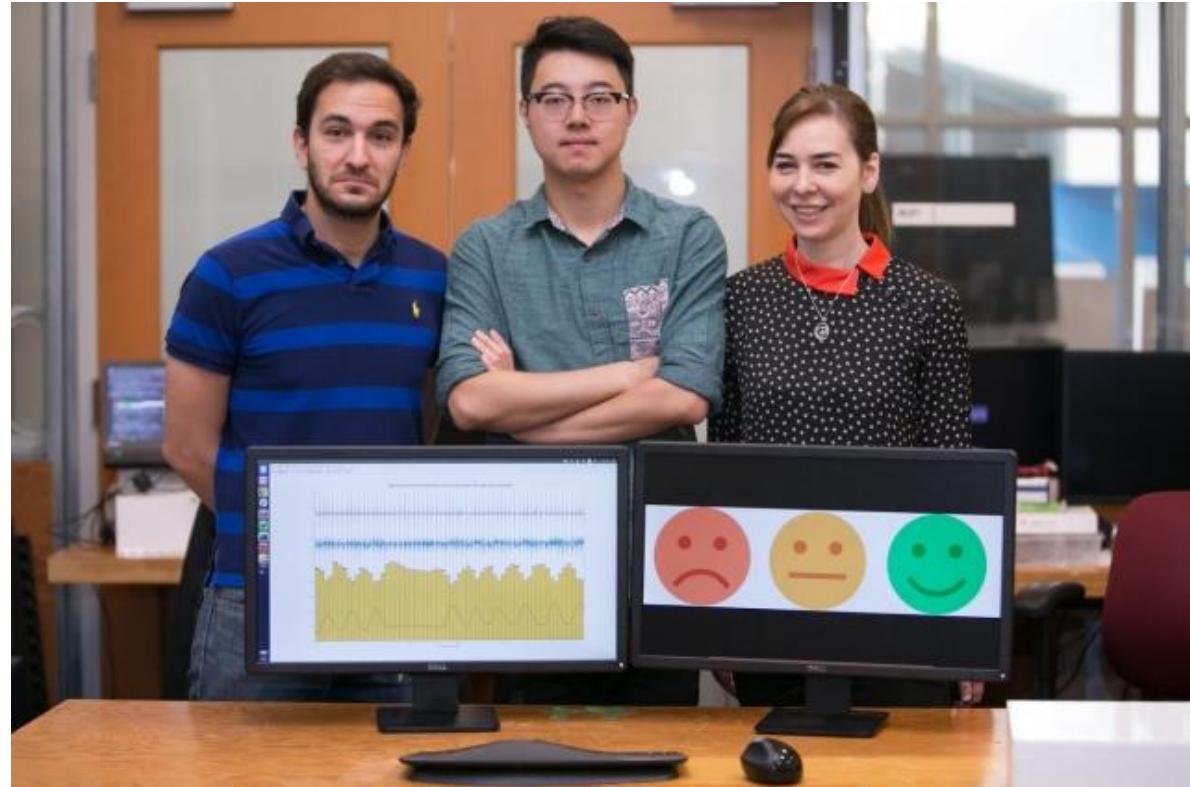
CSAIL device  
uses RF waves

## Measures

1. heartbeat
2. breath

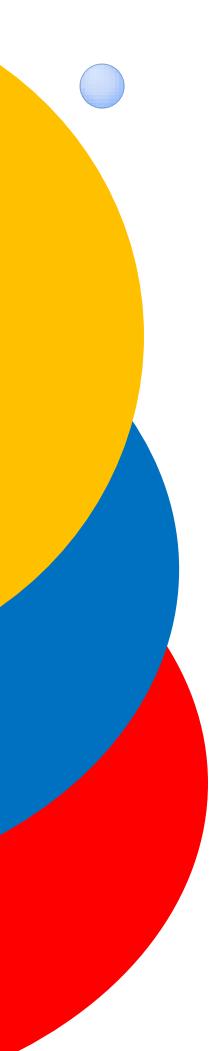
## Tell if you're

1. excited
2. happy
3. angry
4. sad



Microsoft's [Project Oxford](#), Emotion API

- Detects up to 8 emotions



# STEINER ON FACING HUMAN-MECHANICAL

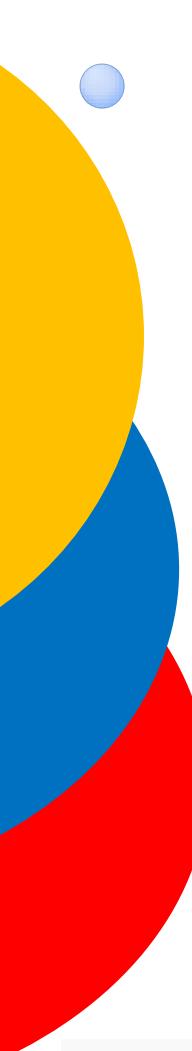
- Fifth post-Atlantean period will have to solve the problem of how human moods, the **motions of human moods**, allow themselves to be translated into **wave motions on machines**, how **man must be brought into connection with what must become mechanical**
- “The will is there **to harness human energy to mechanical energy**
- **These things should not be treated by fighting against them – that is a completely false view**
- These will not fail to appear; they will come
  - What we are concerned with is whether, in the course of world history, **they are entrusted to people who are familiar in a *selfless way* with the great aims of earthly evolution and who structure these things for the health of human being** or whether they are enacted by groups of human beings who exploit these things in an egotistical or in a group-egotistical sense
- It is not a question of **what**; the what is sure to come; it is a question of the **how**, how one tackles these situations”
  - Rudolf Steiner, *The Reappearance of Christ in the Etheric*, lecture 12

# HELPING WITH LOCKED-IN SYNDROME

- Uses near-infrared spectroscopy (NIRS) and electroencephalography (EEG) to measure blood oxygenation and vibratory activity in the brain
- After calibration, the patients were able to respond questions with a "yes" or "no" using their 'thoughts'
- Slippery slope



# ATTACHMENT OF A SECOND BEING



“During the course of the Fifth Post-Atlantean epoch, so many problems have lost all inner, vital warmth. The countless questions which confront us when we study Spiritual Science with any depth, simply do not exist for the modern man with his materialistic outlook.

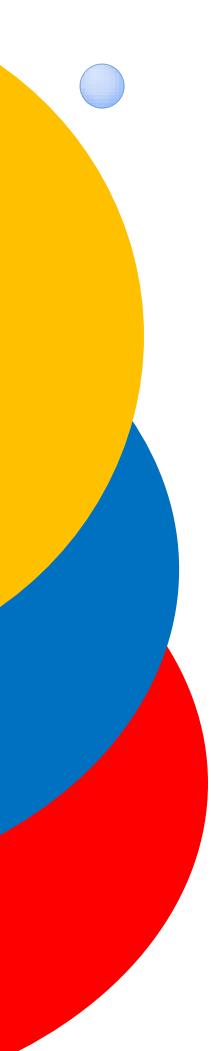
**“A different form of experience will come to the man of modern times.** In his own opinion he knows ever so well; he observes the material world, **uses his intellect to establish the interconnections between its phenomena** and believes that all its riddles are solved in this way, never realizing that he is simply groping in a phantasmagoria.

**“But this way of working coarsens and dries up his ether-body,** with the ultimate result that the [Ahrimanic] powers, ***like a second nature, will attach themselves to him.***

*The Balance in the World and Man, Lucifer and Ahriman, Rudolf Steiner*

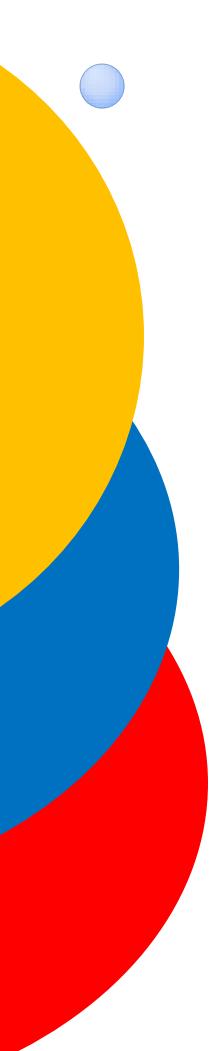


Note similarity to Angel as a second being and to the Double



# LINKING THE ETHERIC TO THE ROBOTIC

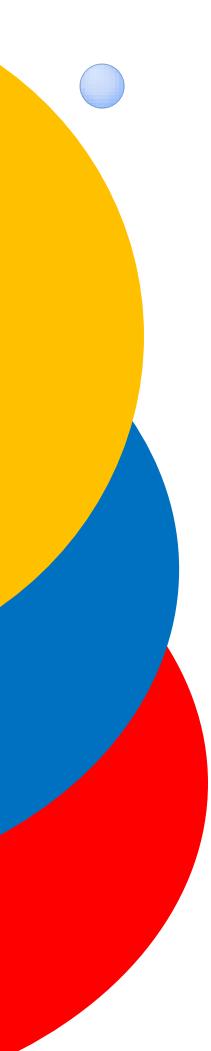
- “Is not Animal Motion perform’d by the Vibrations of this Medium [etheric body], excited in the Brain by the power of the Will...?” – Isaac Newton
- “The spiritual-etheric shall be placed in the service of outer practical life. The emotion in a human mood **will be transmitted in *wave movements* to machines, between the dying forces of the nervous system and the external power of the machine.” – 13Mar1917, from the *Schiller File* (note: I could not find the lecture for this quote in rsarchive.org)**



# MERGING MAN AND MACHINE

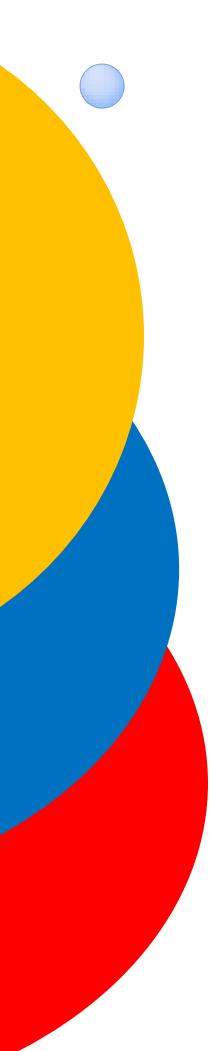


- “The point is **not what** is going to happen, for it certainly will happen, but **how** it happens — how these things are handled.
- **The welding together of human beings with machines will be a great and important problem for the rest of the earth-evolution.**
- I have often pointed out, even in public lectures, that human **consciousness depends on destructive forces**. During public lectures in Basle I twice said that in our **nerve-system we are always in process of dying**. These **forces of death** will become stronger and stronger, and we shall find that they are **related to the forces of electricity and magnetism**, and to those at work in machines.
- A man will be able in a certain sense to *guide his intentions and his thoughts* into the forces of the machines. Forces in human nature that are still unknown will be discovered — **forces which will act upon external electricity and magnetism**.
- That is one problem: the bringing together of human beings with machines, and this is something which will **exert ever-increasing influence on the future.**”
- *The Wrong and Right Use of Esoteric Knowledge*, lect. 3, 25Nov1917, Dornach, GA 178



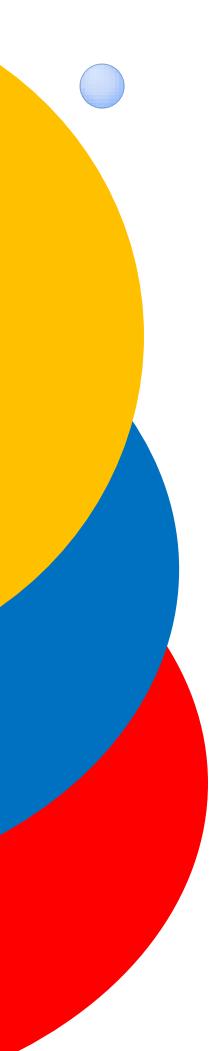
# MERGING MAN AND MACHINE

- “Now I will turn again to the fact that in this 5<sup>th</sup> PACA humanity will have to find ways of **dealing with great life-problems** which in a certain sense were veiled by the wisdom of the past.
- One of these great problems will be concerned with finding out how to **place the spiritual etheric forces at the service of practical life**.
- I have told you that in this epoch we have to solve the problem of how the **radiations from human states of mind are carried over into machines**; of how human beings are to be brought into relation with an **environment which *must become increasingly mechanized***.”
- – *The Wrong and Right Use of Esoteric Knowledge*, lecture 3, 25Nov1917, Dornach, GA 178



# WRONG POLARITY THROUGH GEMINI

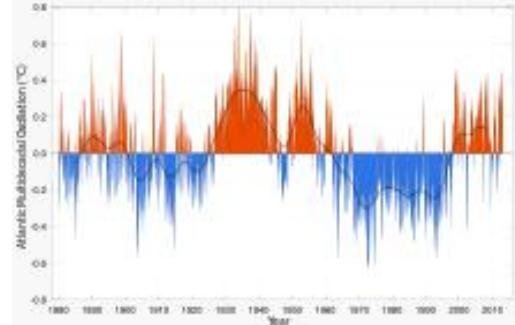
- “These forces, however, will be left aside by those who try to achieve their whole purpose through the polaric duality of positive and negative forces.
- The forces which enable the spiritual to stream down to earth with the aid of positive and negative magnetism come from Gemini; they are the **midday forces**.
- In ancient times it was known that cosmic influences were involved in this, and to-day even exoteric scientists are aware that in some or other way **positive and negative magnetism** lie behind Gemini in the Zodiac.
- The aim will be to paralyze all that could be gained through a revelation of the true duality in the cosmos — to paralyze it in a materialistic, egotistic way by means of the forces which stream in particularly from Gemini and can be placed entirely at the service of the **human “Double.”**
- – *The Wrong and Right Use of Esoteric Knowledge*, lecture 3, 25Nov1917, Dornach, GA 178



# WRONG POLARITY THROUGH SAGITTARIUS

- “Other brotherhoods, concerned above all to divert attention from the Mystery of Golgotha, will try to make use of the duality in human nature — the duality which in our epoch embraces man as a unity, but includes within him his lower animal nature [sacrifice of Chiron].
- A human being is really a centaur in a certain sense: his humanity rests on his lower animal nature in its astral form.
- This working together of the duality in man gives rise to a duality of forces. This duality of forces will be utilized particularly by certain egotistic brotherhoods, chiefly from the side of India and the East, in order to mislead eastern Europe, whose task it is to prepare for the sixth post-Atlantean epoch. **Midnight forces.**
- And this will be done with the aid of the forces which work in from Sagittarius.” – *The Wrong and Right Use of Esoteric Knowledge*, lecture 3, 25Nov1917, Dornach, GA 178

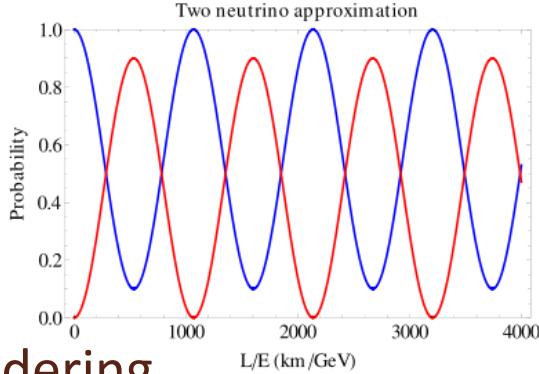
# SECRETS DISCLOSED

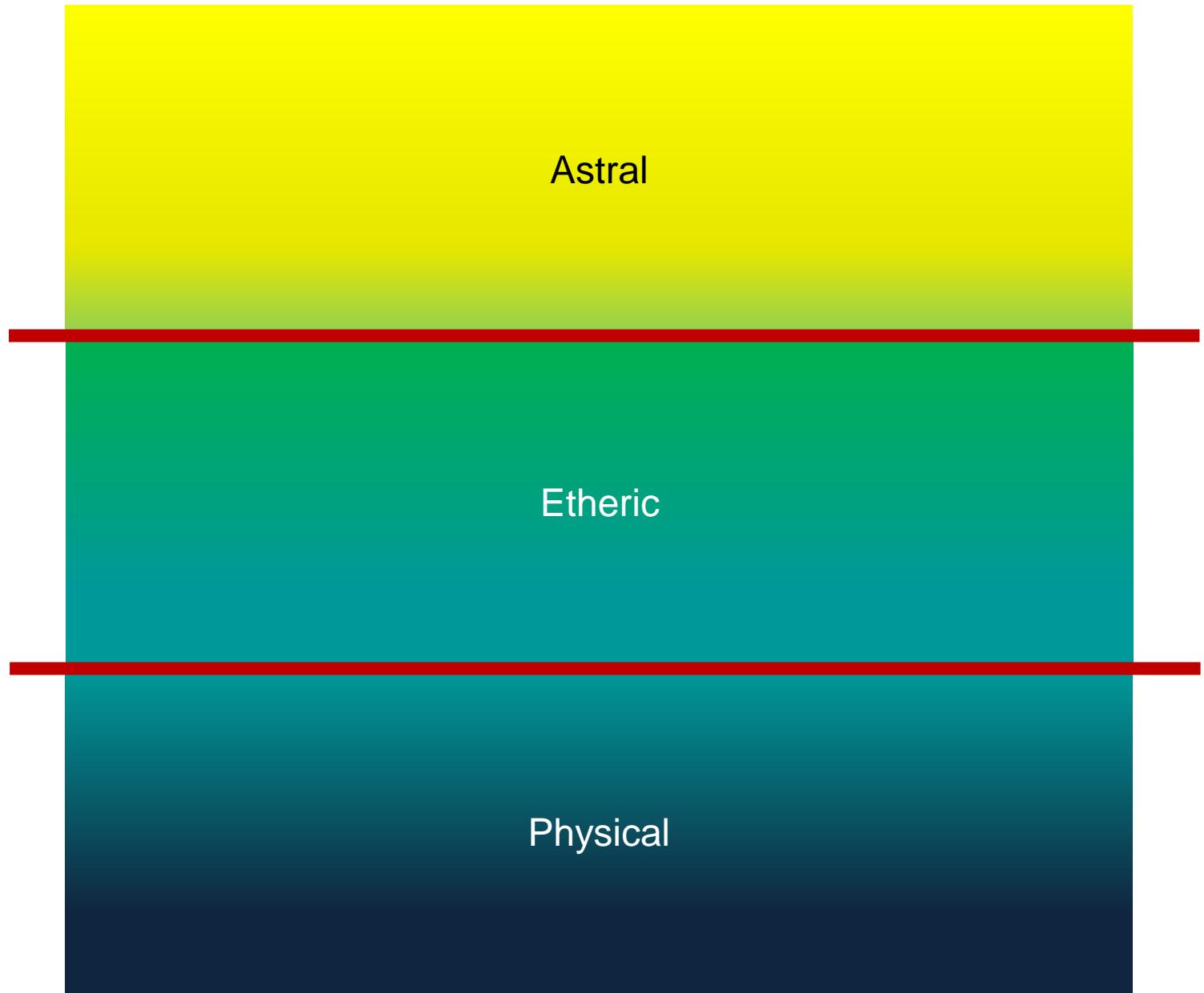


- “First, there are the capacities having to do with so-called **material occultism**. By means of this capacity — and this is precisely the ideal of **British secret societies** — certain **social forms** at present basic within the industrial system shall be set up on an entirely different foundation. Every knowing member of these secret circles is aware that, solely by means of certain capacities that are still latent but evolving in man, and with the help of the **law of harmonious oscillations, machines and mechanical constructions and other things can be set in motion**. A small indication is to be found in what I connected with the person of **Strader** in my Mystery Dramas.
- These things are at present in **process of development**. They are **guarded as secrets** within those secret circles in the field of material occultism.
- **Motors can be set in motion, into activity, by an insignificant human influence through a knowledge of the corresponding curve of oscillation**. By means of this principle it will be possible to substitute merely mechanical forces for human forces **in many things.”**

# MECHANICAL OCCULTISM

- “The possibility will thus come about of rendering unnecessary nine-tenths of the work of individuals within the regions of the English-speaking peoples. **Mechanistic occultism will not only render it possible to do without nine-tenths of the labor still performed at present by human hands**, but will give the possibility also of paralyzing every uprising attempted by the then dissatisfied masses of humanity.
- **The capacity to set motors in motion according to the laws of reciprocal oscillations will develop on a great scale among the English-speaking peoples.** This is known in their secret circles, and is counted upon as the means whereby the **mastery over the rest of the population of the earth shall be achieved even in the course of the fifth post-Atlantean epoch.**”







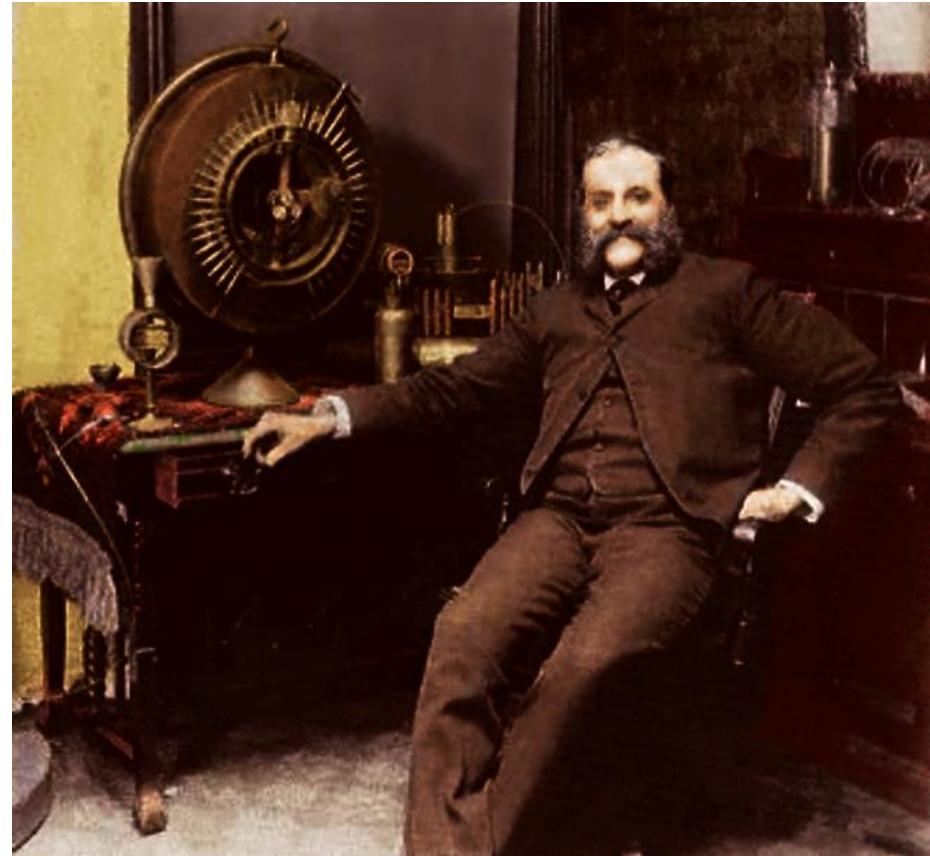
# RESONANCE

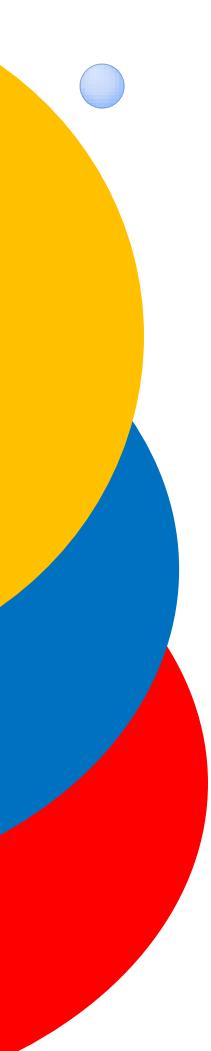
- Chladni resonance (see [video](#)) from tone from bow
  - Making it visible
  - Picture Forming
- Eurythmy
  - Inner experience
- Moral uses
  - Keely machines
  - Use of prosthetics
- Creativity - Tone
  - Procreation
  - Larynx
- Movement in water
  - Fish



# KEELY & RESONANCE

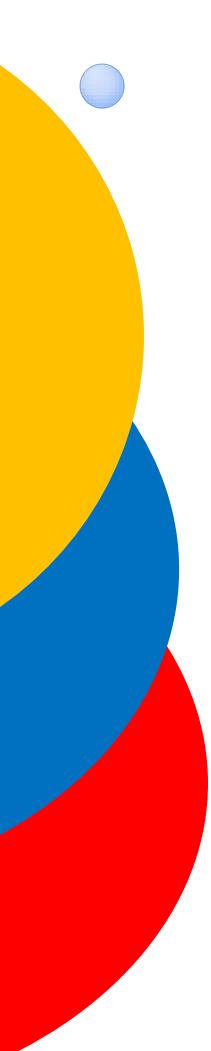
- Mechanical Occultism
  - West
- Frequency & Wavelength
  - As long as we research in mere numbers, we'll not find this resonance
- Keely played music to start his machine





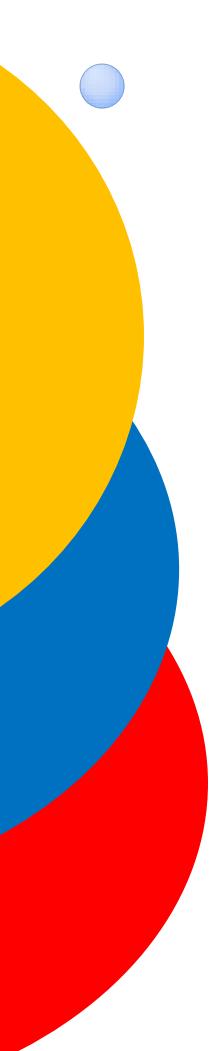
# DRIVING FORCE: MORAL TECHNOLOGY

- “It is perhaps known to you that Keely invented a motor which would only go if he himself were present. He was not deceiving people about this; for **he had in him that driving force originating in the soul, which can set machines in motion.** A driving force which can **only be moral**, that is the **idea of the future**; a most important force, **with which culture must be inoculated**, if it is not to fall back on itself.
- “What is expressed by the **Tau** is a driving force which can only be set in motion by the **power of selfless love**. It will be possible to **use this power to drive machines**, which will, however, **cease to function if egoistical people make use of them.**” [refers to Hiram Abiff, Cain]
  - The Temple Legend, lecture 20, 2Jan1906, Berlin, GA 93



# THE MECHANICAL AND THE MORAL

- “The *mechanical and the moral must interpenetrate* each other, because **the mechanical is nothing without the moral**. Today we stand hard on this **frontier**. In the future machines will be driven not only by water and steam, but **by spiritual force, by spiritual morality**.
- This power is symbolized by the Tau sign and was indeed poetically symbolized by the image of the Holy Grail. **Man is no longer merely dependent on what Nature will freely give him to use**; he can shape and transform Nature, he **has become the master craftsman of the inanimate**. In the same way he **will become the master craftsman of what is living.**”  
– The Temple Legend, lecture 20, 2Jan1906, Berlin, GA 93



# MORALITY AND BREATHING

Keep in mind the steamy atmosphere of Atlantis and the fire-breathing dragons of Lemuria

- A person's moral or immoral behavior can be seen in the steamy breath
- A man's moral and immoral nature in the ordinary sense of the word is actually visible in the etheric-astral content of the steamy breath
- Although the physical part of it dissolves, what is incorporated in it does not
- The breath contains a genie, which, in the case of steamy breath, has a physical, an etheric and an astral part, only the physical is not earthly, just watery
- The Jupiter human beings of the future will evolve out of what we breathe out in present ages

Rudolf Steiner, *Art as Seen in the Light of Mystery Wisdom*, lecture 7, 3JAN1915

# THE POWER OF THE HUMAN SOUL

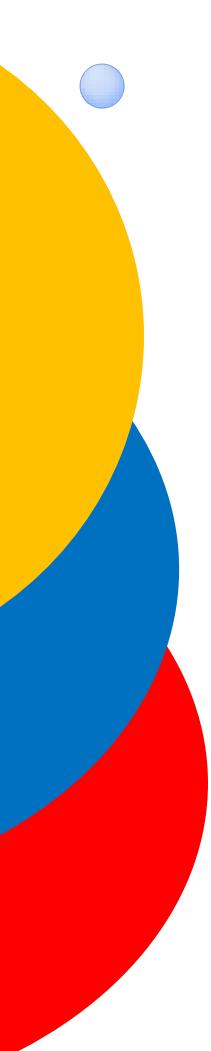
- The telephone and the extension of the soul over space
  - Re-soul print , articles stored on the internet, recordings
- The automobile and extension of touch sensation
  - This experience will vanish soon – self driving cars
  - What does it mean when one gets a “feel” for their car?
- Can our soul operate ‘within’ a robot? Avatar?
- What role does our soul have?
  - Emanations?
  - AI detecting your emotions with wireless signals
  - AI detecting whether or not you are a criminal



# CHANGING THE PHYSICAL BODY

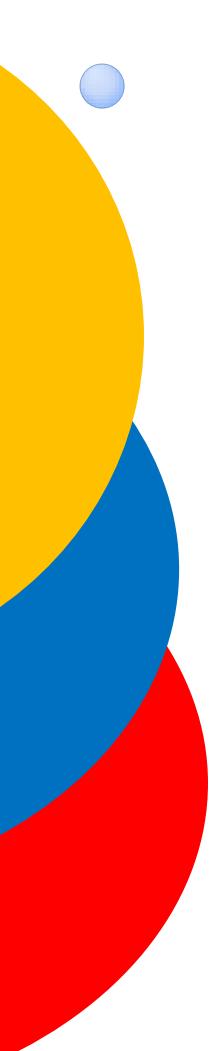
- “It will be as if the **denser part** of man were here **below on earth** and the human being will **make use of it** from outside **like an instrument**
- Man will **no longer bear his body about and live within it**, but will float above it, the body will itself have become rarefied and finer”
- Rudolf Steiner, *Theosophy of the Rosicrucian*,
  - Lecture 13, *The Future of Man*,
  - 5Jun1907, Berlin, GA 99
- Body becomes merely a vehicle





# WRONG AND RIGHT WAYS

- “But from the other side many endeavors will be made to introduce the dead into human existence by **artificial means**. Along the *indirect path through Gemini* the dead will be led into human life, with the result that **human vibrations will pass over into the mechanism of machines and will continue to vibrate there** in a quite definite way. The **cosmos will impart motion to the machines** by *the indirect path* I have indicated.”
- – *The Wrong and Right Use of Esoteric Knowledge*, lecture 3, 25Nov1917, Dornach, GA 178

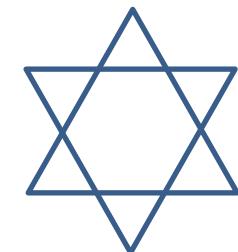
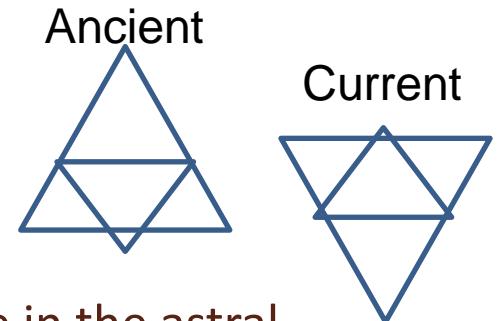


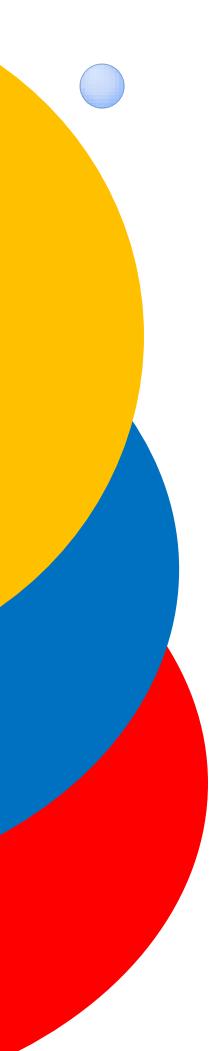
# WRONG AND RIGHT WAYS

- “It will thus be essential, when these problems emerge, that no improper methods should be applied to them, but **only those elemental forces which belong to nature on their own account**, and great care will have to be taken **not to introduce improper forces** into the realm of machines.”
- -- *The Wrong and Right Use of Esoteric Knowledge*, lecture 3, 25Nov1917, Dornach, GA 178
- Right: morning & evening (Pisces and Virgo)
- Wrong: mid-day & midnight (Gemini and Sagittarius)

# BATTLE FOR YOUR ETHERIC BODY

- Ahrimanic beings gain a foothold in a parched etheric
  - Attachment of a second being
- Only you can win
  - Must become conscious of our etheric
  - Time, life, movement, vibrations
  - Vibrate with moral impulses that originate in the astral
  - Your victory is for all of humanity and for the cosmos!
- Expanded consciousness: balance sub and supra-Nature
- Reappearance of Whitsun in the Etheric
  - Individual
  - Birth of Christ in the Etheric (~1930s)
  - Slaughter of the Innocents
  - “Out of Egypt”





# MOVEMENT

- Fundamental in Steiner's First Science lecture cycles
  - Eurythmy
- Dewey Larson's Reciprocity System Theory
  - Reality (sub-atomic) is movement, not things
  - Cosmic and Physical (Earthly) movements
  - 3 'dimensions' of movement, with combinations
    - 1. Circular, 2. Straight line, 3. Vibratory
- Paul Schatz ([Society](#))
  - (1) rotation, (2) translation (movement in a straight line), (3) rhythmically pulsating inversion (turbula)
- Light? (an ether), Electricity? (also an ether)
- Mechanics: Forces in space and time ignores peripheral

# RECAP

- Fear Not, rather Prepare the Future
  - Mechanical according to divine will
  - Cultural age arrogance: we were superior
  - 2160 years of avatar life coming
- Not the What but the How
  - Merging Human and Machine will happen – via slippery slope
  - Who will be doing this? *Become involved.*
  - Now we can grasp: “Upon this rock I build my church”
- Vibrations and Moral Technology – Research
  - Interface to electronic machines today
  - Engine Driver later
  - MysTech





# Q&A



Hanson Robotics, 2016

# SCHEDULE

[www.thechristianmysteries.com](http://www.thechristianmysteries.com)

## March 24, 2017 Lecture

- 19:00 – 20:30 Technology and the Human Body – The Western Path

## March 25, 2017 Workshop

- 08:45-09:00 Registration, social time, tea/coffee
- 09:00-09:15 Welcome, Introductions
- 09:15-10:30 Merging Through Rhythms and Ethers
- 10:30-11:30 **The Three Movements with Natasha Moss**
- 11:30-12:30 Discussion: Protecting, Counteracting, Confronting
- 12:30-01:30 Lunch (BYO) together
- 01:30-02:30 Mythology and Facing the Future Without Fear
- 02:30-03:00 Eurythmy exercises and tools for balancing technical work
- 03:00-04:00 Structured Discussion: The Challenge of Our Times

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Discussion

# PROTECTING, COUNTERING, CONFRONTING

# COMING PREPARED FOR MODERN LIFE



# REMEDIES

- Generational differences
- EMR-“free” zones in your home
  - Meter
  - Turn off at night
- Where you carry it (mobile phone)
  - High EMR while talking
  - Don’t sleep with your phone
- Movement (vs longing for comfort)
  - Mind/Soul – passive vs active
  - Body and posture – wholeness in movement, standing desks
  - Senses – move your focus, variation (temperature, distance, ...)
  - Etheric exercises
- Lifestyle (longing to be entertained vs to do)
  - Fasting, friends, food, nature, ...



# SCHEDULE

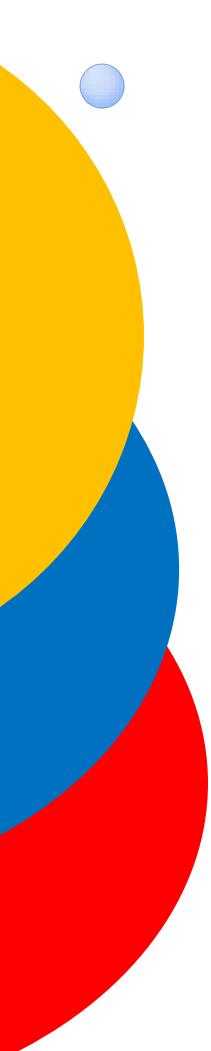
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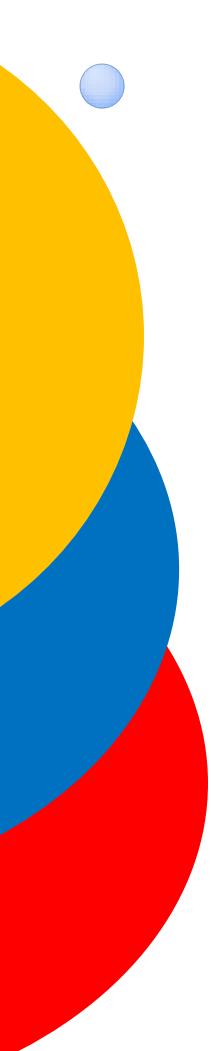
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# THE IMPORTANCE OF DEED

- Since the beginning of the last, third of the 19th century the spirit — the spiritual world — is willing to reveal itself to men in all strength; yet men have gradually reached a point in their development when they are only willing to use their physical bodies as instruments for receiving anything at all in the world.
- Their materialistic outlook has accustomed them to consider — even to maintain on theoretical grounds that the physical body is the instrument of thinking and, indeed, of feeling and willing too.
- Men have persuaded themselves that the physical body is the instrument of all spiritual life.
- They have not persuaded themselves of this without grounds; they have good reason for this, namely: That man in the course of his evolution had gradually come to be able to use only the physical body. It had really come about that **only** the physical body could be used as the instrument of spiritual activity.
- – Rudolf Steiner, *Some Characteristics of To-day*, Heidenheim, 12Jun1919, GA 193



# THE IMPORTANCE OF DEED

- So we stand to-day at the **infinitely important juncture** in human evolution where, on the one hand, the spiritual world is willing to reveal itself with great power, while, on the other, man must find the **strength** to free himself from his greatest entanglement in what is material and come to a new reception of spiritual revelations.
- To-day man is confronted by the **greatest trial of his strength** — his power to work his way *in freedom* to the spirit which is approaching him of itself, if he does not shut himself off from it.
- The time is past when the spiritual could reveal itself to man in all sorts of subconscious and unconscious processes.
- The time has come when man **must receive** the light of the spirit through *a free, inner deed*.
- All the confusion and want of clarity in which men are living to-day come from the fact that men *must receive* something that they do not yet want to receive: an entirely *new understanding* of things.
- – Rudolf Steiner, *Some Characteristics of To-day*, Heidenheim, 12Jun1919, GA 193

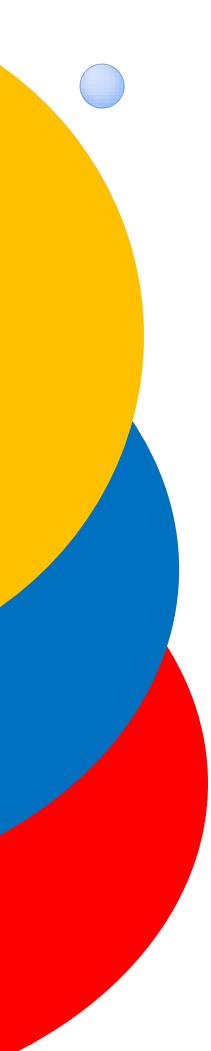


# RESONANCE WITH ELECTRICITY AND LIGHT

# FROM THE FIRST SCIENCE COURSE

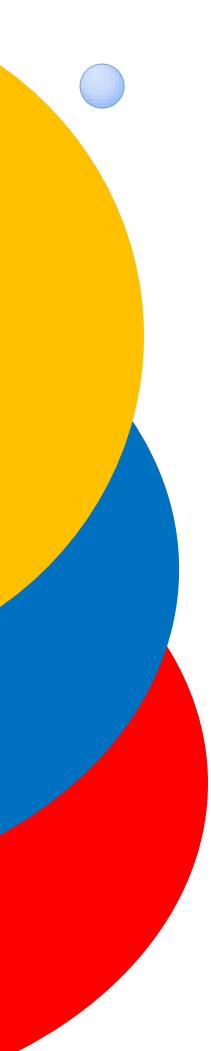
## STUDY OF ELECTRICITY AND MAGNETISM = STUDY OF MATTER

- “The moment we go on to the essential qualities of **mass** and **matter**, we are approaching what is akin to those **forces which develop in us when we are sleeping**
- And we are going in precisely the same direction **when we descend from the realm of light and sound and warmth into the realm of the electrical phenomena**
- We have no direct experience of the phenomena of our own Will
  - All we are able to experience in consciousness is our thoughts about them
- **We have no direct experience of the electrical phenomena of Nature**
  - We only experience what they deliver, what they send upward, to speak, into the realms of light and sound and warmth etc.
- For we are here crossing the same boundary as to the outer world, which we are crossing in ourselves **when we descend from our thinking and idea-forming, conscious life into our life of Will**
- All that is light, and sound, and warmth, is then akin to our conscious life, while all that goes on in **the realms of electricity and magnetism is akin — intimately akin — to our unconscious life of Will.”**
  - Wherever Will is working through the metabolism, there too is working something **very similar to the external phenomena of electricity and magnetism**



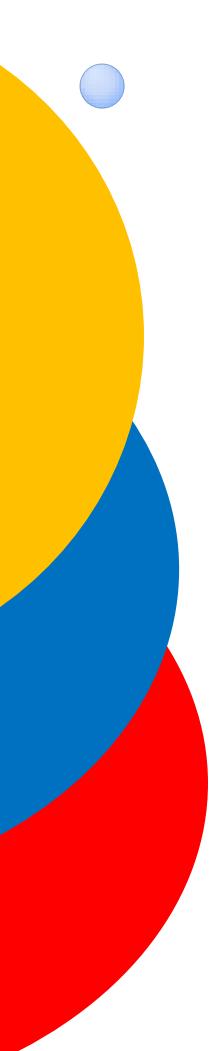
# LIGHT COURSE, LECTURE 10

- The phenomena of **sound and tone and light** are **akin** to the conscious element of **Thought and Ideation** in ourselves, while those of electricity and magnetism are akin to the sub-conscious element of Will.
- Even as Feeling is intermediate between Thought and Will, so is the outer **warmth** in Nature intermediate between **light** and sound on the one hand, **electricity** and magnetism on the other.
- Increasingly therefore, this must become the inner structure of our understanding of the phenomena of Nature.
- It can indeed become so if we follow up all that is latent in Goethe's Theory of Color. We shall be studying the element of light and tone on the one hand, and of the very opposite of these — electricity and magnetism — on the other.
- As in the spiritual realm we differentiate between the **Luciferic, that is akin to the quality of light**, and the **Ahrimanic, akin to electricity** and magnetism, so also must we understand the structure of the phenomena of Nature. [*is electricity a comparable wave in sub-nature as light in super?*]
- Between the two lies what we meet with in the phenomena of Warmth.
- – R. Steiner, GA320



# LIGHT AND ELECTRICITY

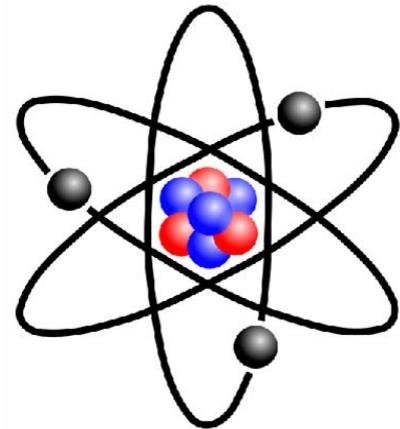
- “Complete opposites” – what does this mean?
- Light related to levity
  - Why do some need sunglasses? Why does light cause headaches?
- Light as opposite of weight/gravity
  - Balance and rhythms of light-dark
- Where are these within the human?
  - Blood and nerves
  - Life and death
  - When does thinking become light? electricity?
  - Does what we think matter? How do our thoughts become real?
- Electricity as light under the negative-life influence



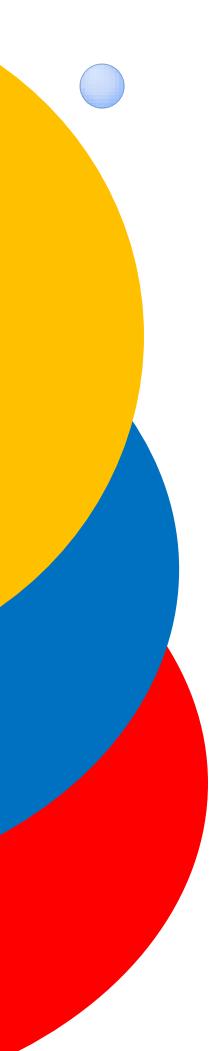
# LIGHT & WEIGHT AS COSMIC ANTIHESSES

- Asleep, the soul lives in light, and therefore in levity
  - One's will is 'crippled'
- Awake, it lives in weight, in gravity through the body
  - One's will is active
- Thus, light and weight are *cosmic* antitheses
- In light are dying world-thoughts
- In the forces of weight lie worlds to come through the seeds of will
- All this streams through the souls moving in space
- We are looking at the world physically, and, at the same time, morally

# WHAT IS THE ATOM? STEINER



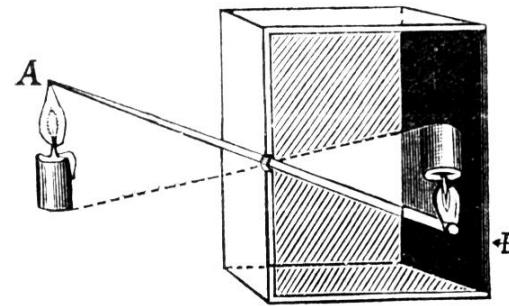
- **The atom is nothing but coagulated electricity**
  - Thought itself is composed of the same substance
- **Before** the end of the 5<sup>th</sup> PACA, science will have reached the stage where man will be able to **penetrate into the atom itself**
- When the **similarity of substance between the thought and the atom** is once comprehended, the way to get hold of the **forces contained in the atom** will soon be discovered
  - Then nothing will be inaccessible to certain methods of working
  - It is impossible to conceive what might happen if mankind has not, by then, reached selflessness
- The **attainment of selflessness** alone will enable humanity to be kept from the brink of destruction



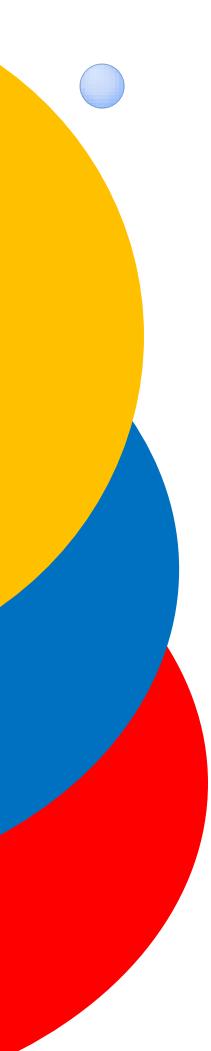
# AT BOUNDARY OF PHYSICAL & ETHERIC

- It cannot be compared with any other physical substance, yet it is the essence of *all* of them
  - Physical substances are modifications of this one substance
- To see it clairvoyantly was Rosicrucian endeavor
  - Requires a heightened activity of the soul's moral forces, which would then enable them to see this substance
  - Power for this vision lay in the moral power of the soul
- Discovered it exists in both macrocosm and microcosm
  - Macrocosm: in its mighty garment
  - Man: when harmonious interplay between thinking and willing
    - Thinking: in Man and in the rainbow and the rosy light of dawn
    - Willing: in Man and in thunder and lightning

# ACROSS THE THRESHOLD



- To move from one thought to another, we must use the will
  - A fine, delicate willing which transfers one thought to another
  - When in the sensory world, the whole extent of thinking and a small amount of willing are bound together in the head
- Over the Threshold it is the **reverse**: a small amount of thinking and much widespread willing is bound to the head
  - Through the eye of the needle
- In this willing, which otherwise sleeps, we sense the spirit
  - Previously the senses were the transmitters of sense-impressions, and one was not aware that the **will goes through the eyes**, through the ears, that the will goes through the sense of warmth, **and through every other sense as well**
  - Now we see that everything the eye experiences as multiple colors, what the ear hears as multiple sounds, what man perceives as warmth and cold, as rough and smooth, smells and tastes etc., is all **will in the spiritual world**



# ELEMENTAL BEINGS

- “The outstanding characteristic of these elemental beings dwelling in solid earth [gnomes] is cleverness, cunning, slyness — in fact, a one-sidedly developed *intellect*.  
– They are very much more clever than human beings
- Water [undines] related to human feeling and Air [Sylphs] to will
- “We now live at a time when the intellect has begun to decline within the civilized world; it is falling into decadence.
- If mankind does not become receptive to what streams towards him from the spiritual world, then
  - The result of this dullness on man's part will be
    - And there are signs already of it happening
  - That these elemental beings will gather together to form a kind of union and place themselves under the leadership of the supreme intellectual power: Ahriman.”
- - Source: R. Steiner, *The Elemental World and the Future of Mankind*, Dornach, 28 May 1922, GA 212

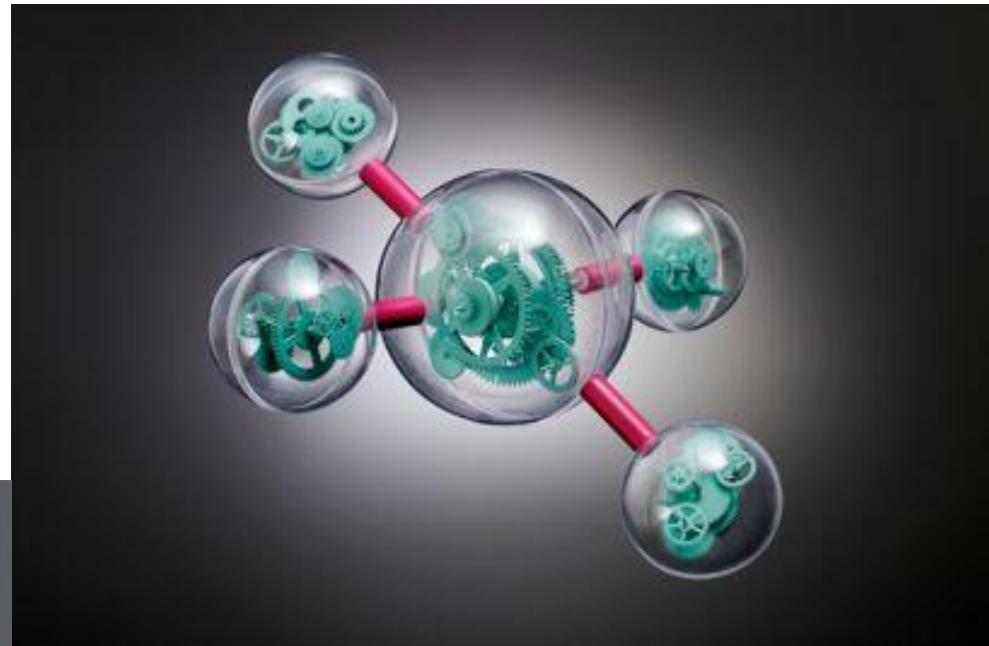
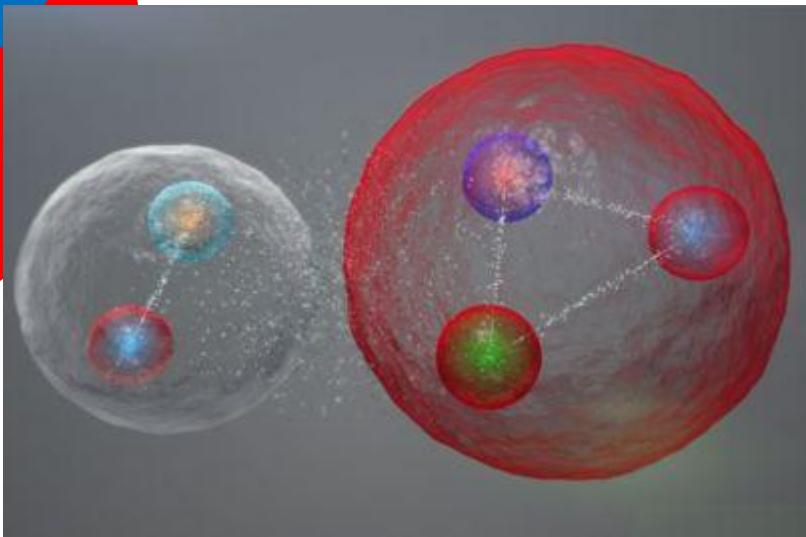


# CONCERNING ELECTRICITY

- “When we think of them as atoms, in general, **when we imagine** matter in the form of atoms, **we transform** these atoms into **carriers of death**; but when **we electrify** matter, Nature **is conceived as something evil**
  - For electric atoms are [then] little demons of Evil
- This, however, does not tell us much; for it does not express the fact that the **modern explanation** of Nature set out along a path that really **unites it with Evil**
  - When we listen to a modern physicist blandly explaining that Nature consists of electrons, we merely listen to him explaining that Nature really consists of little demons of Evil!
- And if we acknowledge Nature in this form, we raise Evil to the rank of the ruling world-divinity”

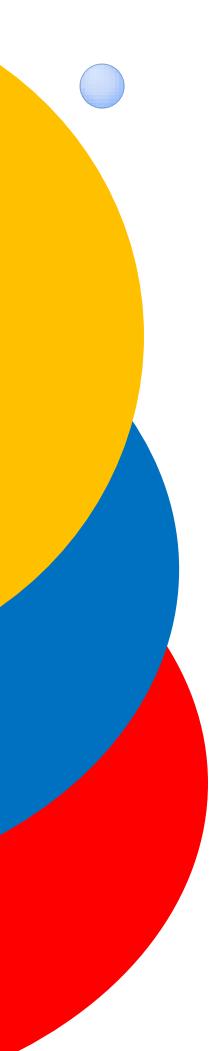
# EVIL ARISING FROM 'CONCEPTION'

- When we imagine matter in the form of atoms, we transform these atoms into **carriers of death**



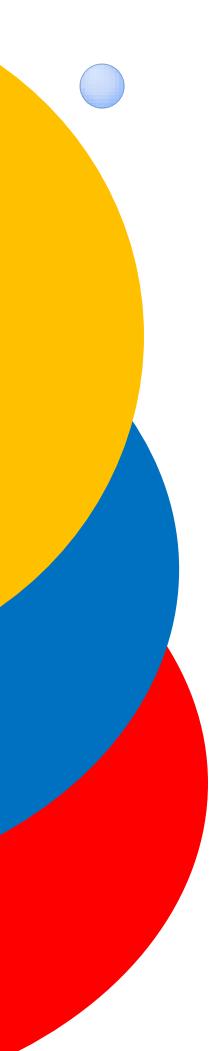
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[http://www.wired.co.uk/article/proton-radius-puzzle-mystery-new-measurement?\\_\\_prclt=0usGEqMS](http://www.wired.co.uk/article/proton-radius-puzzle-mystery-new-measurement?__prclt=0usGEqMS)



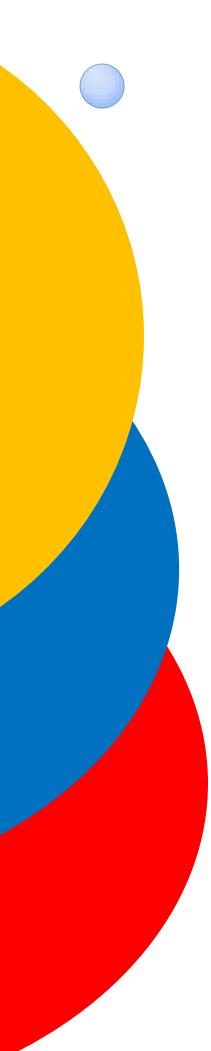
# ELECTRICITY AS THE CARRIER OF EVIL

- “Good and evil forces in man could to a great extent influence the health and illness of other people, and consequently also birth and death
  - There was a connection between the actions of an Atlantean and the natural course of birth and death
- During the **4<sup>th</sup> PACA** this problem of **birth and death** was more connected with the human soul, but during our own epoch, the **5<sup>th</sup> PACA**, people will have to **struggle with evil** in the same elemental way in which they struggled with birth and death during the Atlantean age
  - Particularly through the **control of** the different forces of **Nature**, the impulses that lead to evil will send their influences into the world in an **immense, gigantic form**
- *The Overcoming of Evil*, R. Steiner, Dornach, November 4, 1917, GA 273



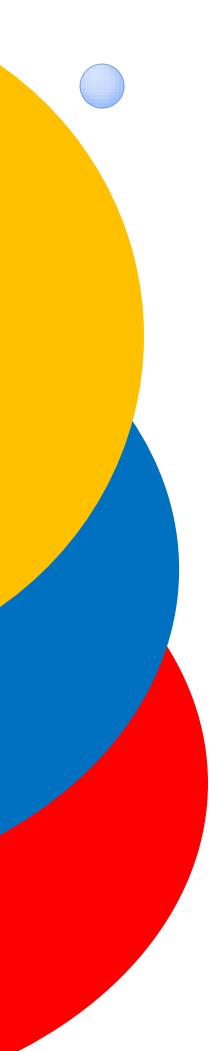
# ELECTRICITY AS THE CARRIER OF EVIL

- “The forces of **good will have to grow out** of the opposition to evil
  - We will draw the strength for this opposition out of spiritual sources
- During the 5<sup>th</sup> PACA, **when the exploitation of electric forces** which will assume quite different dimensions from those which they have assumed so far, will **enable** man to spread evil over the earth
- **Evil will invade the earth by coming in an immediate way out of the forces of electricity”**
- *The Overcoming of Evil*, R. Steiner, Dornach, November 4, 1917, GA 273



# ANTHROPOSOPHY AND ELECTRICITY

- “If Anthroposophy were to adopt a fanatic attitude, if Anthroposophy were ascetic, it would thunder against the modern civilization based on electricity
- Of course, this would be nonsense, for only world-conceptions that do not reckon with reality can speak in that way
  - They may say: “Oh, this is ahrimanic! Let us avoid it!” — But this can only be done in an abstract way
- **We cannot shut our eyes to the fact that we must live with Ahriman**
  - But we must live with him in the right way, that is to say, we must not allow him to have the upper hand”
    - R. Steiner, *Concerning Electricity*, 28Jan1923, GA220



# MODERN TECHNOLOGY & ROLE OF EVIL

- “Wherever electricity is used, there is demon magic
  - Demon magic signifies progress – we should not oppose progress”
    - R. Steiner, Karma of Vocation, lecture 9, GA 172
- In the 5<sup>th</sup> PACA, illusion, **Maya itself, will be seized upon by Evil**
  - It will all be permeated by cleverness, intelligence
- The human being can only come to **spiritual freedom** by *growing strong against the resistance provided by evil*
- Human beings will have to accustom themselves to **regard the inrush of the forces of Evil as an inrush of very laws of Nature**
  - *We will learn to know what lives and moves in the depths of things*
- We must not regard Evil from the outset as one would, who in the fullness of his egoism merely wanted to get away, to flee from it
  - We cannot do so but we must penetrate it with consciousness; we must learn to know it — **really learn to know it [evil]**
- Above all, in our time, *already a force is preparing* in the realm of human beings a force which tends to **create illusions** that are harmful and destructive
  - R. Steiner, *The Problem of Faust*, lecture 6, 4Nov17

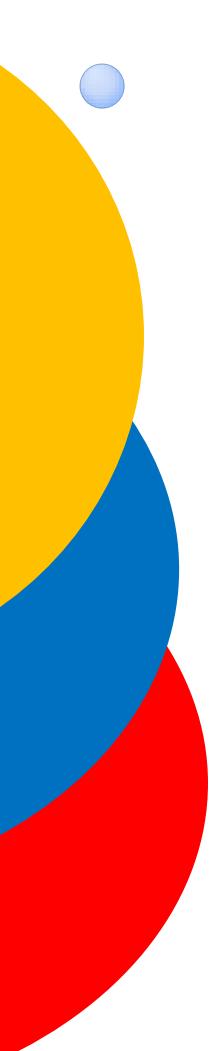
# SPIRITS OF BIRTH AND DEATH

- “The elemental spirits of birth and death are, of course, messengers of Ahriman. The iron necessity of world evolution forces the gods to use Ahriman's messengers to control birth and death. When they ask the elemental spirits to act on their behalf they do not allow the powers of these messengers to enter the physical world.
- But as civilization goes into its decline, from the fifth post-Atlantean period onwards, this element has to come in again, so that catastrophe may be brought about. **Human beings must use these powers themselves.** Ahriman's messengers are therefore an **iron necessity; they have to bring about the destruction that will lead to the next step forward in civilization.** This is a terrible truth, but it is so.” -- Rudolf Steiner, *The Fall of the Spirits of Darkness*, lecture 4
- All progress takes this course: wherever what has been created falls into ruin, we know that out of that ruin new life will always blossom -- Rudolf Steiner, *Leonardo da Vinci, His Spiritual and Intellectual Greatness At the Turning Point of the New Age*, Berlin, February 13, 1913, GA 62

Machines and the Human Spirit

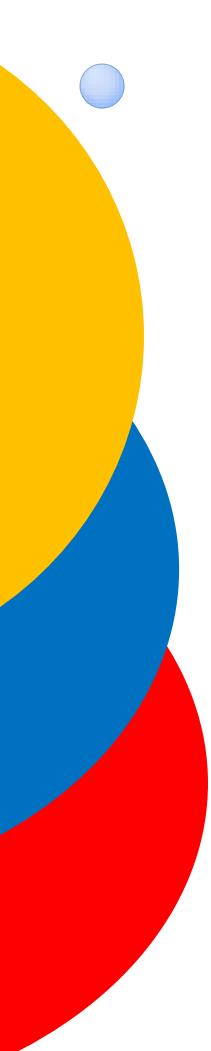


Paul Emberson



# WHAT WILL BE OUR FUTURE WORLD?

- “What is now around you will become your *inner life*
  - “You will take into yourselves what is now the mineral kingdom and it will become part of your inner being
    - Similarly the plant kingdom next
    - “What surrounds you in nature will become your inner being
      - [*What happens to our man-made world → inner being too?*]
  - “What we ourselves prepare and make ready in the world — that is what will constitute our future existence
    - What you yourself place into the world becomes the consciousness that the world will give back to you
  - “What we do with the mineral world, with the plant world, with the animal world, and with men, that we shall surely become”
    - “If you found a charitable institution or have contributed something to its foundation, what you have contributed will become an integral part of you”
- R. Steiner, *The Atom as Coagulated Electricity*, GA93



# CREATION

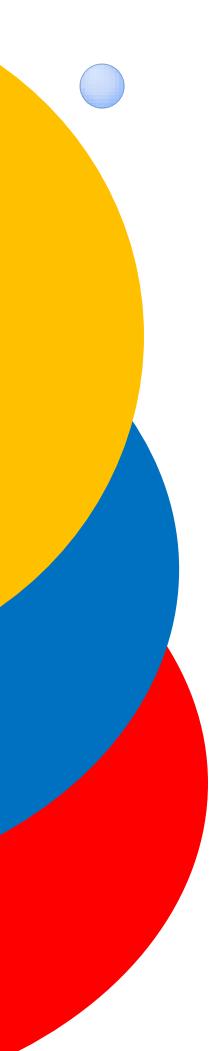
- The inner of a spiritual being becomes the outer
  - From the living to the lifeless (as precipitant)
- Something from nothing: duality where the two cancel
  - Matter and anti-matter
  - Space and counter-space
  - Etheric and “fallen” ethers (warmth remains warmth)
- From Divine creating to creation/manifestation to Human creating a man-made world
  - We (so far) do not create life (from the lifeless to the living)
  - We are at the threshold, nay crossing it, trying to take the lifeless into the living (hammer it harder)
    - GMOs, space travel, ...



# BACKUP MATERIAL



# ELECTRO-MAGNETIC RADIATION

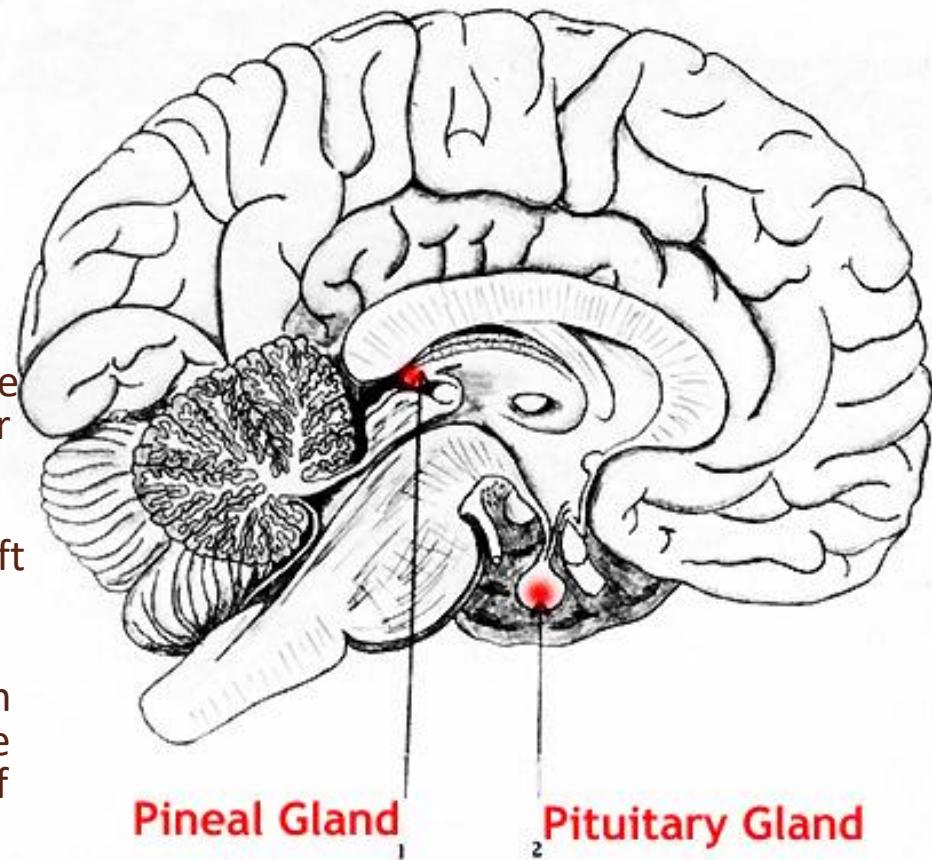


# SENSITIVITY FOR ELECTRO-MAGNETISM

- Magnetic field of human beings and of higher animals interact closely with earth's magnetic field
  - According to **Rob Baker** the *human magnetic organ* is situated in the bones of the sphenoid/ethmoid sinus, directly in front of the *pituitary gland*
  - This organ 'feels' the earth-magnetic north alignment
- A further highly sensitive electromagnetic point in the human brain is in the domain of the *pineal gland*
  - Will the pineal evolve? Will its EMR sensitivity change?
- The electric direct-current system in the brain:
  - Acts on the consciousness
  - Reacts sensitively to very weak frequencies in the ELF channel (extremely low frequencies)
- Evolving sensitivity? Devolving? Age-related? Illness?

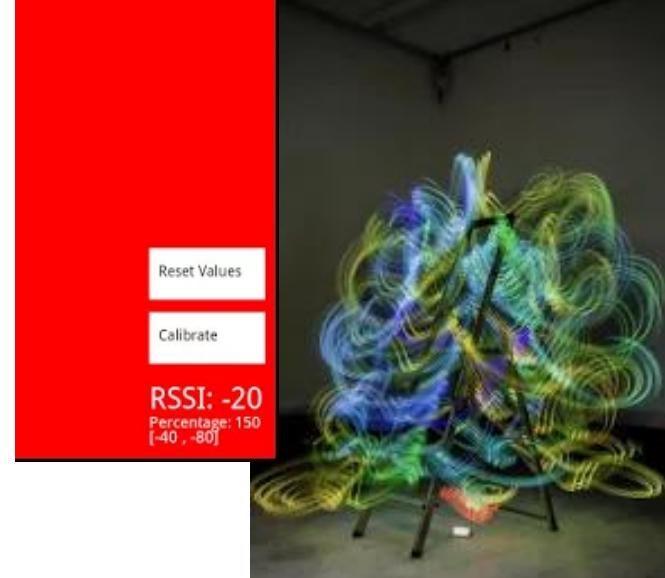
# ELECTRO-MAGNETIC RADIATION

- [My own sensitivity story]
- It is a law of evolution that certain organs atrophy, subsequently to take on new functions
- The pineal gland has a certain physiological relation with the lymphatic system
- In olden times this gland was the organ of perception of the outer world and it is still to be seen near the top of the head of newly-born babes where the soft matter recalls the nature of man's body in olden times
- In our life of intellect, the dream plays a role similar to that of the pineal gland in the physiology of the human body

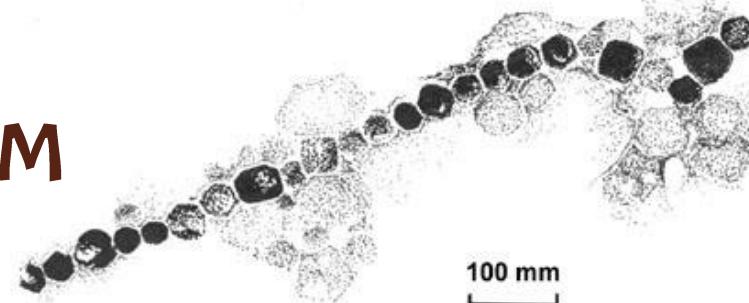


# RECOMMENDATIONS

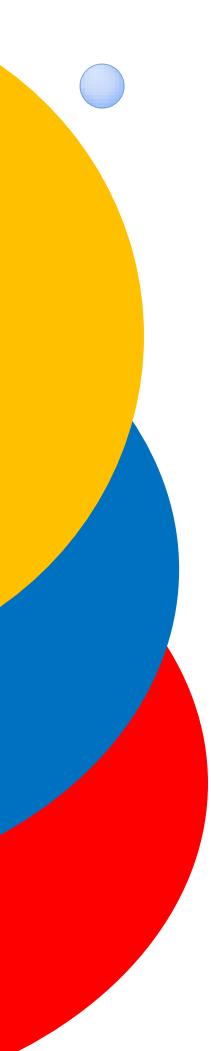
1. Measure your home's EMR
  - Android [app](#) (Kirlian Photography)
  - iPhone [app](#) (Fallen Angel Creations)
2. Place screen near window – look outside often
  - 20-20-20 rule: Every 20 minutes, look at something at least 20 feet away for 20 seconds.
  - Go everyday, same time, for an hour walk
3. Get up once per hour
  - Move, get tea
4. Shut down at night
  - And at dinner, make it engaging
5. Annual blood tests



# BIO-ELECTROMAGNETISM

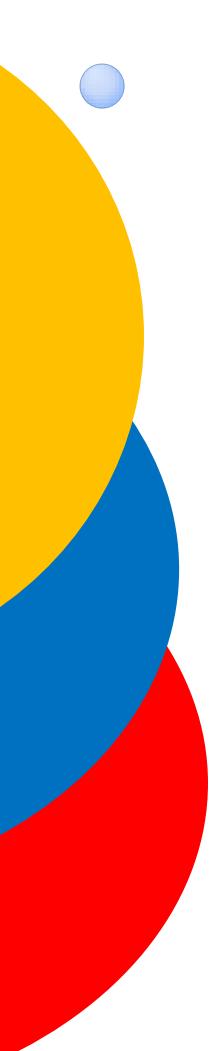


- Electricity and magnetism used in healing
  - Why? Affect rhythm? Affect “bad” cells more than “good”?
    - Bio-rhythms, melatonin – pineal
  - Magnets in limb braces
  - Electro-therapy
  - Electrical conductors:
    - Gold and silver jewelry,
    - Copper rods in eurythmy
- Piezo-electricity: bone, DNA and various proteins
  - Electricity resulting from (piezo) pressure
  - Piezoelectric effect is “the linear electromechanical interaction between the mechanical and the electrical state in crystalline materials” - *Wikipedia*
- 100M magnetite ( $\text{Fe}_3\text{O}_4$ ) crystals/gram of cerebral cortex
  - Responds according to different light pulses
    - Piezoelectric crystal oscillator – reaching full body and beyond (?)
  - Does the brain function differently under EMF?
  - Useful for development of Strader/Keely Mechanical Occultism?
- Dental amalgams (mercury – galvanic response)



# PIEZOELECTRIC USES

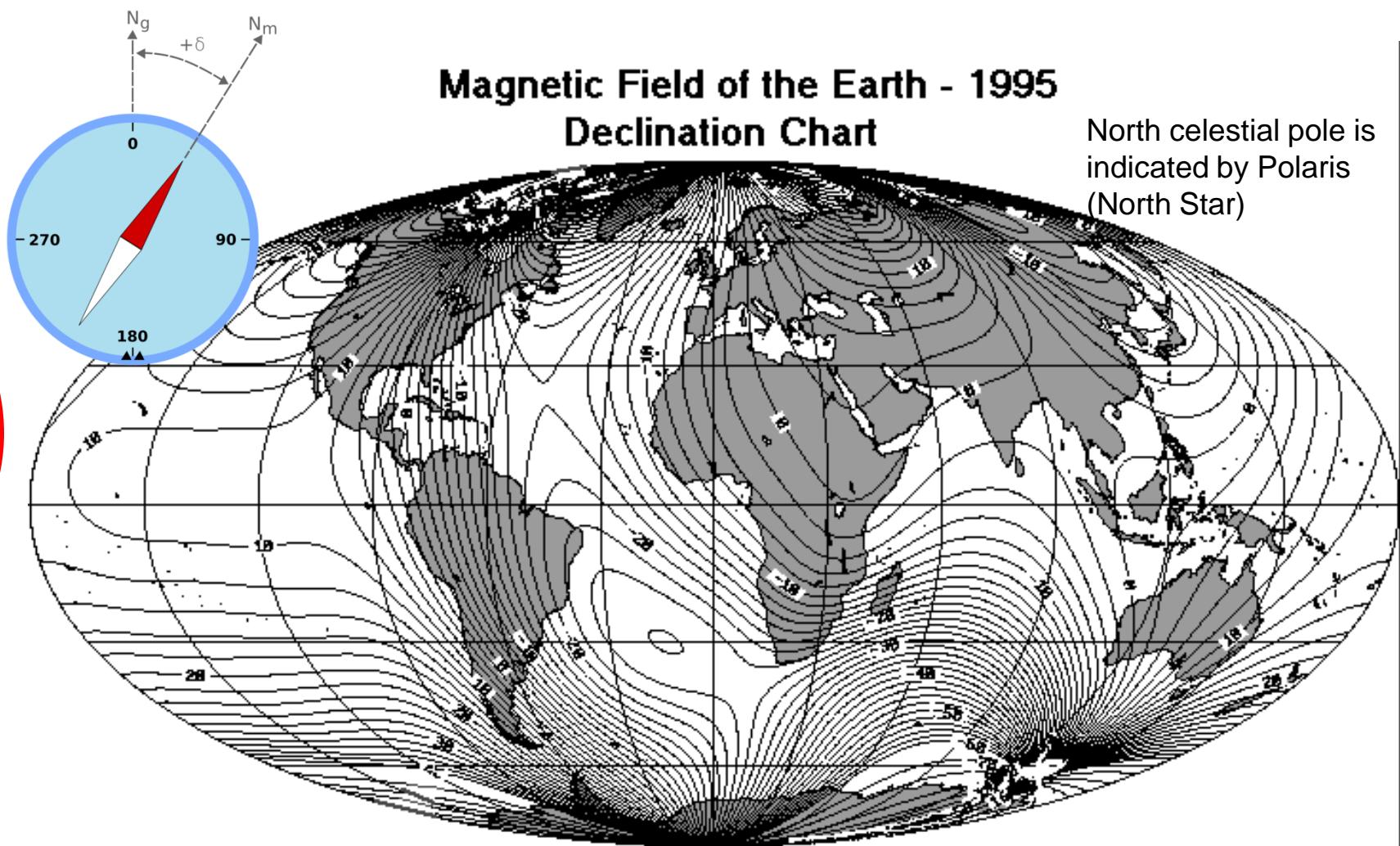
- Piezoelectricity (aka the piezoelectric effect) occurs within certain materials – crystals (notably quartz), some ceramics, **bone, DNA, and a number of proteins** – when the application of mechanical stress or **vibration** generates electric charge or alternating current (AC) voltage, respectively
- (Conversely, piezoelectric materials can **vibrate** when AC voltage is applied to them)
- The piezoelectric effect has a significant range of uses, including **sound production and detection**, generation of high voltages and electronic frequencies, atomic resolution imaging technologies (e.g., scanning tunneling and atomic force microscopy), and actuators for highly accurate positioning of nanoscale objects – the last being crucial for fundamental research and industrial applications



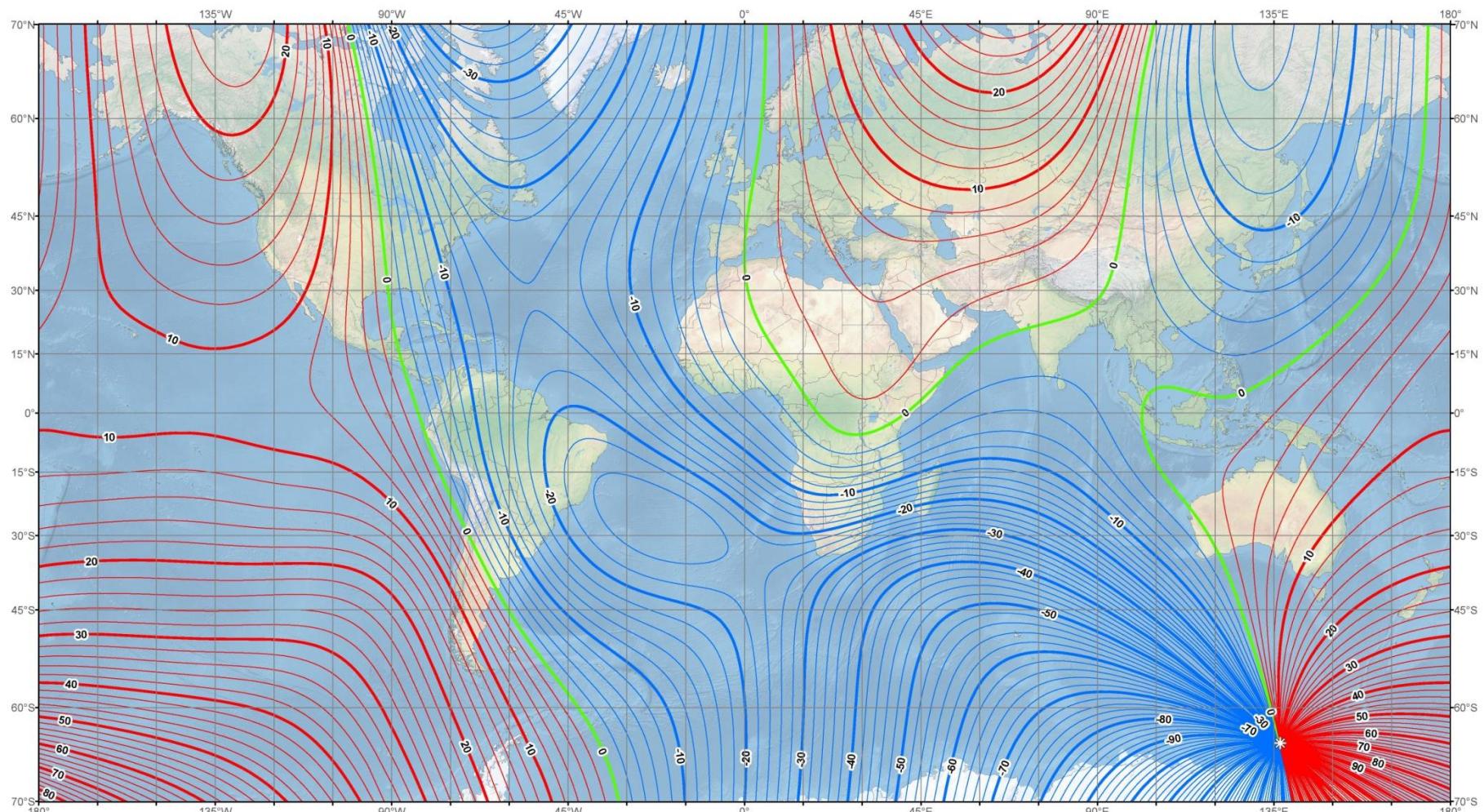
# USING EARTH'S MAGNETISM

- “Those concerned to present an Anti-Christ as the real Christ will try also to make use of something that works through the most material forces, but in this very way can work spiritually. Above all they will strive to make use of electricity and earth-magnetism in order to produce effects all over the world. I have shown you how earth-forces rise up into what I have called the human Double, the Doppelgänger. This secret will be opened up.
- An American secret will be to make use of earth-magnetism, with its north-south duality, and by this means to send over the earth guiding forces which will have spiritual effects. Look at the magnetic chart of the earth and compare it with what I am now saying. Observe where the magnetic needle deviates to East and West and where it does not deviate. I can give only hints about all this.
- From a certain direction in the heavens, spiritual beings are continually active, and they have only to be put into the service of the earth, and — because these beings working in from the cosmos can mediate the secret of the earth's magnetism — it will be possible for egotistic groups to get behind this secret and to accomplish a great deal in connection with gold, health and the prolongation of life.”
- R.S. *The Wrong and Right Use of Esoteric Knowledge*, lecture 3, 25 Nov 1917, Dornach, GA 178

# TRUE NORTH AND MAGNETIC NORTH



# TRUE NORTH AND MAGNETIC NORTH



Main field declination (D)

Contour interval: 2 degrees, red contours positive (east); blue negative (west); green (agonic) zero line.

Mercator Projection.

Position of dip poles

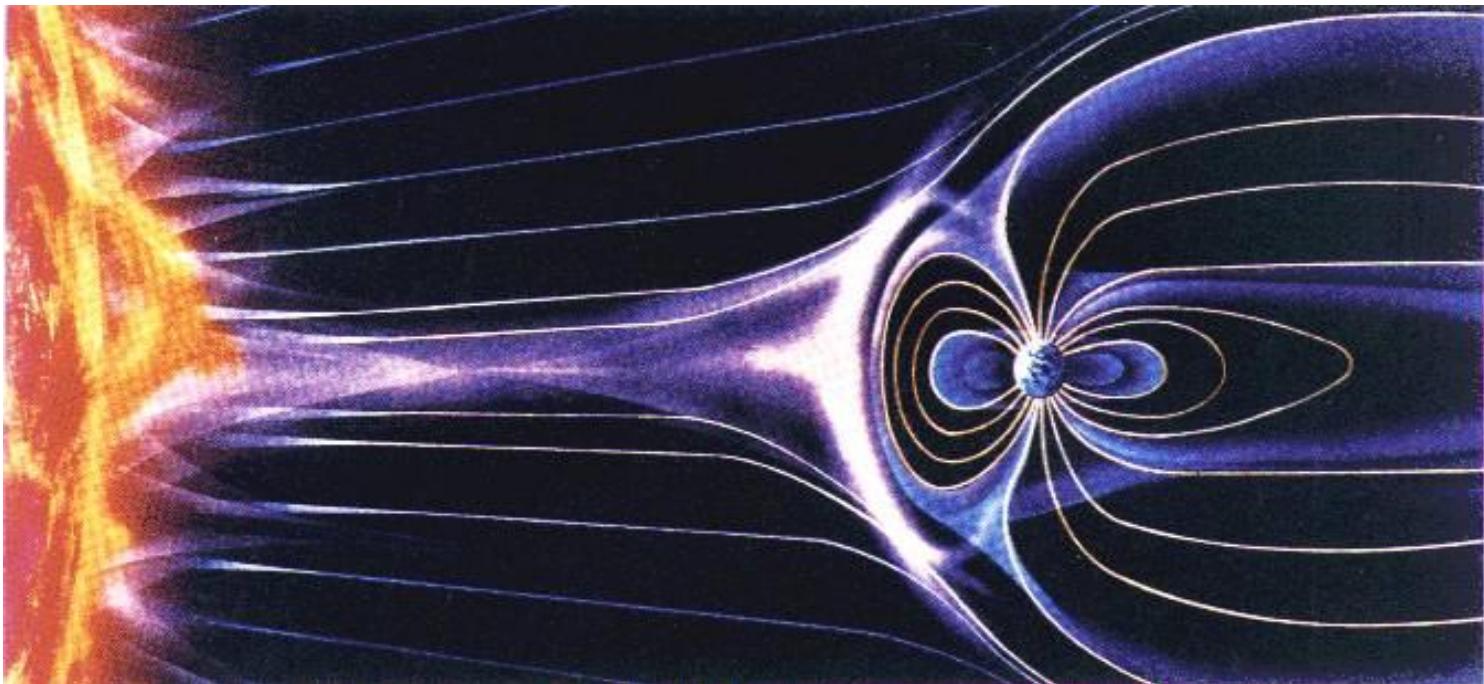
Map developed by NOAA/NGDC & CIRES

<http://ngdc.noaa.gov/geomag/WMM>

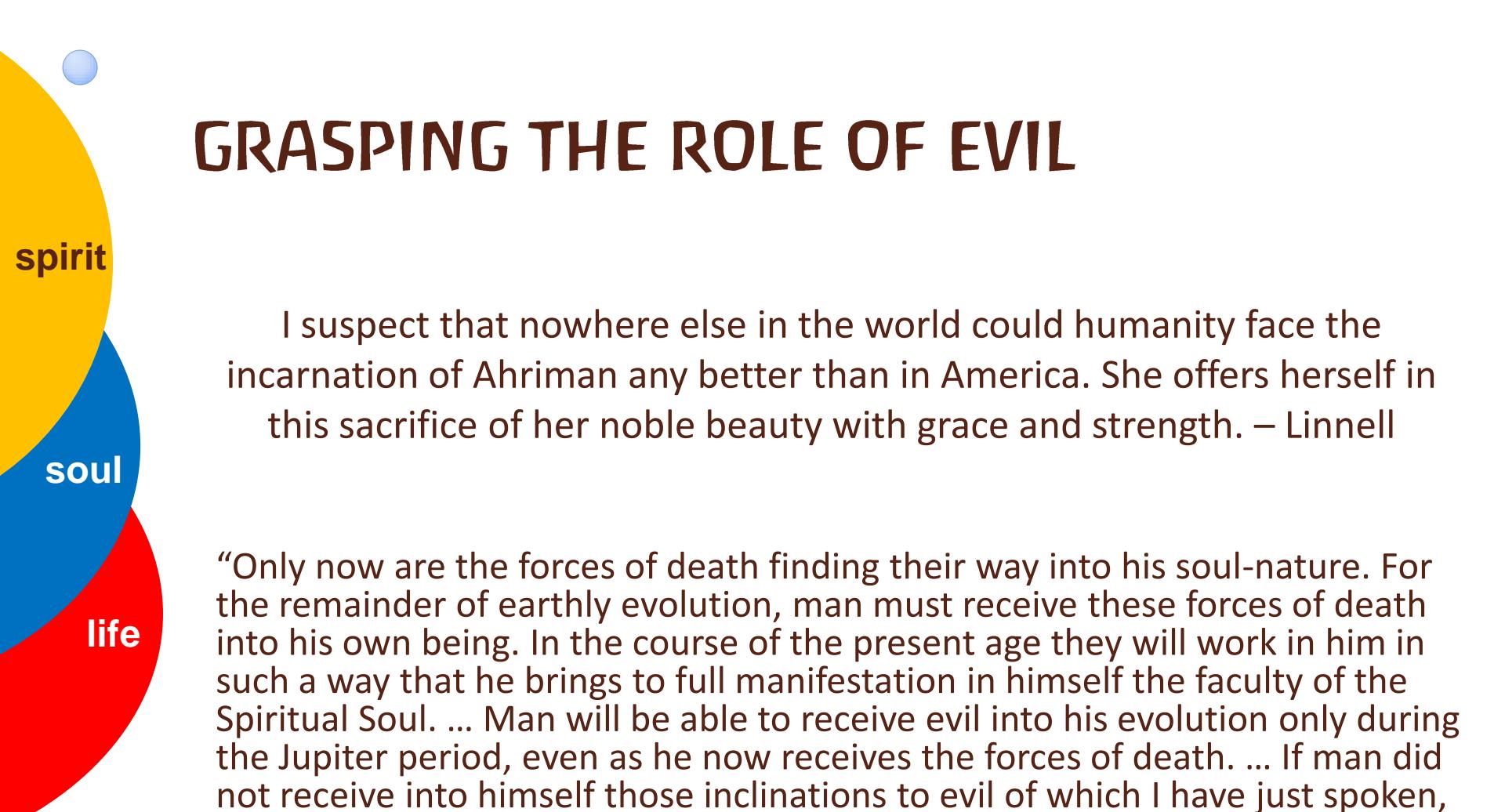
Map reviewed by NGA and BGS

Published December 2014

# MAGNETOSPHERE

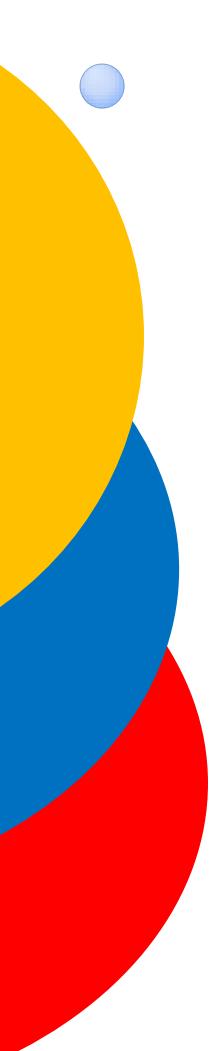


- Occurs during solar flares, coronal mass ejections, and when solar winds interact with the Earth's magnetic field
- Observing 'reconnection' explosions



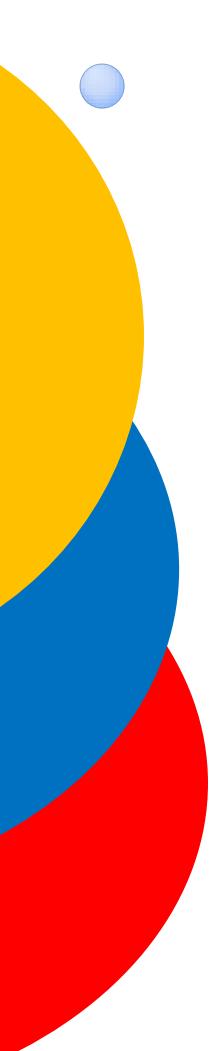
“Only now are the forces of death finding their way into his soul-nature. For the remainder of earthly evolution, man must receive these forces of death into his own being. In the course of the present age they will work in him in such a way that he brings to full manifestation in himself the faculty of the Spiritual Soul. ... Man will be able to receive evil into his evolution only during the Jupiter period, even as he now receives the forces of death. ... If man did not receive into himself those inclinations to evil of which I have just spoken, he would never come to the point where, out of his own Spiritual Soul, he has the impulse to receive from the Universe, the Spirit.”

– R. Steiner, *Evil and the Future of Man*, 26 Oct 1918, GA 185



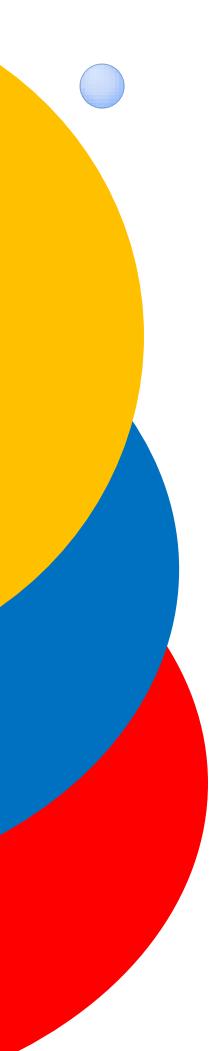
# EVOLUTION AND THE ROLE OF EVIL

- Just as man has wrested himself from the animal so will he wrest himself from evil
  - But never yet has he passed through a crisis as severe as that of the present age
  - The evil and the good are still within man just as in days of yore the animals were within him
- Manicheism: to sublimate men to be redeemers
  - The Master must be the servant of all
- True morality flows from an understanding of the mighty laws of the universe
- R. Steiner, *An Esoteric Cosmology*, The Mission Of Manicheism, GA094
- Ponerology (from Greek, *pōnēros* = evil) is the study of evil



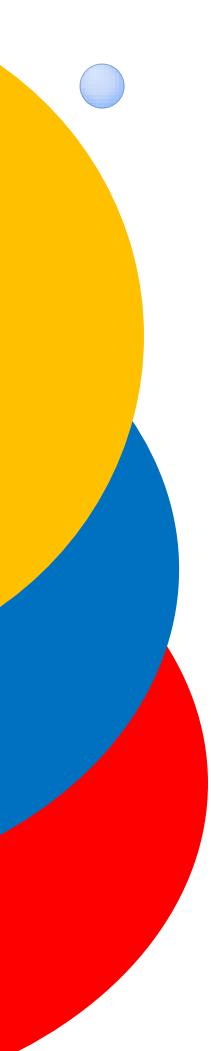
# LIGHT AND DARK, LIFE AND FORM

- Legend: From the Kingdom of Light a spark is sent into the Kingdom of Darkness in order that through itself the Darkness may be redeemed, in order that Evil may be overcome through gentleness
- Confluence of Life and Form: cooperation of Good and Evil
- Life becomes form through finding opposition
  - Life hurries from form to form, fashioning the leaf, then blossom, then seed out of which a new form will come
  - No forms if Life were not obstructed and arrested in its forces which stream out in every direction
  - Form grows out of that which at higher stages appears as fetters
- What was formerly Life, later becomes Form for a new Life
  - The new Life is poured into the old Form
- Christianity has both Form and Life
  - What lived in the Roman State, Empire, surrendered its Life to the Form of the Church
  - The old offices of the state were continued further through the Bishops and Presbyters



# CONCLUSIONS

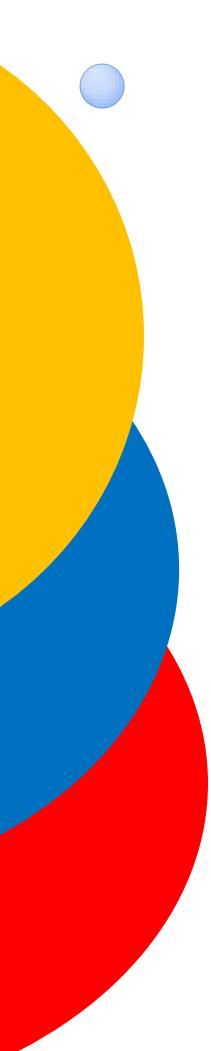
- Need to understand the vibratory nature of the Etheric before we can build Resonance Technologies
  - Relationship to sensing, thinking, feeling, and willing
- Humanity will ‘expand’ downward into sub-nature but the question is will humanity fully slide down or will we take advantage of the end of Kali Yuga to, in balance, ‘expand’ upwards as well with spiritual science



# END

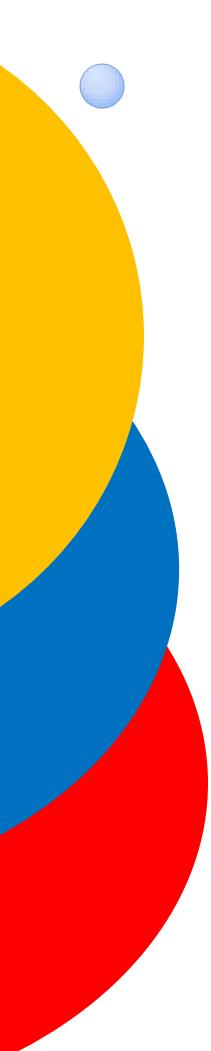
## References

1. Rudolf Steiner, Pastoral Medicine: Lecture 7, GA 318
2. Rudolf Steiner, Karmic Relationships, Volume II: Lecture VIII, GA 236
3. Rudolf Steiner, Anthroposophical Leading Thoughts: Memory and Conscience, GA 26
4. Rudolf Steiner, School for Spiritual Science, Esoteric Lesson 6, Dornach, March 21, 1924, translation by Frank Thomas Smith



# CONCLUSIONS

- Prepare the future according to divine will
  - Technology has a god-willed role in human evolution
  - Other beings get their time
  - Role of the hindrances – evil
  - Being ON TIME, do the right thing AT the right time
    - It is not the What but the How that matters
- Help to understand the Human Being – how is it different from AI and Robotics?
  - Inner being, moral being, intention, fire
  - Robotics likely necessary for our future
- Learn to see the invisible world – the spiritual-etheric
- Joining with other spiritual beings (e.g. **Vulcan**)
  - Hephaestus (= Vulcan) is the God of Technology & Smiths

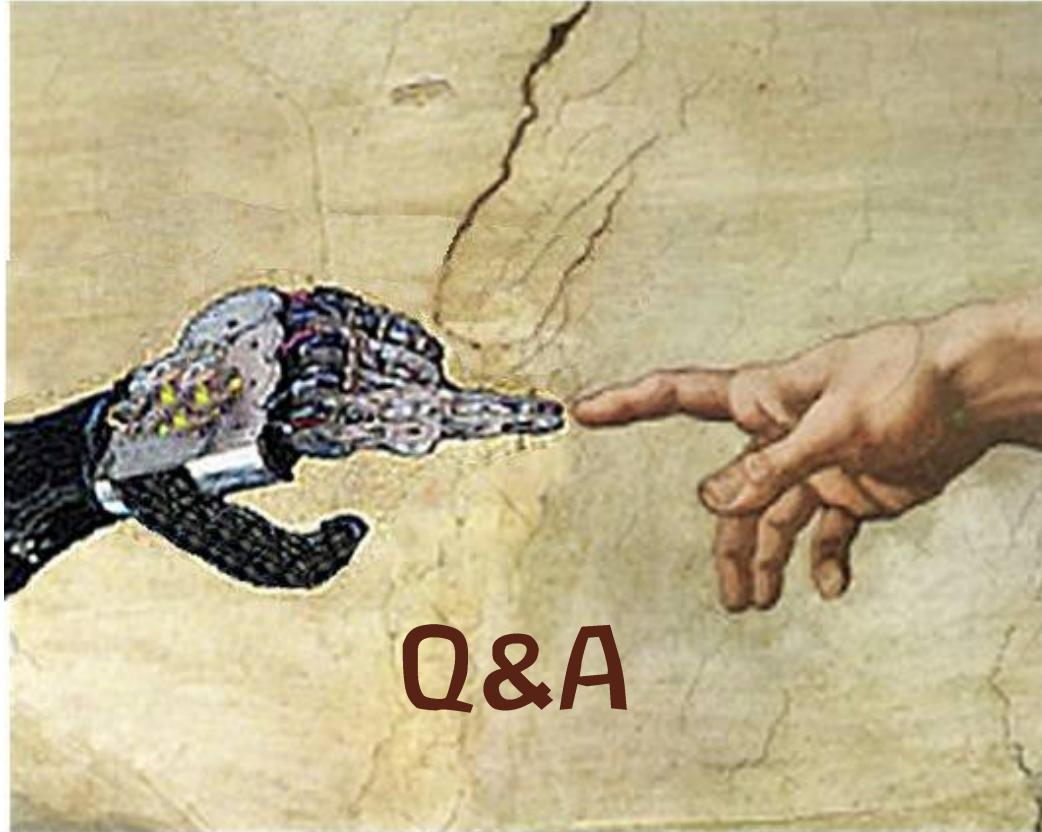


# THE STARS ONCE SPOKE TO MAN

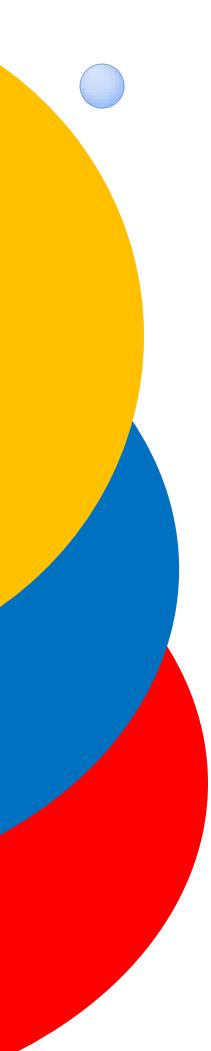
The Stars once spoke to Man.  
It is World-destiny  
That they are silent now.  
To be aware of the silence  
Can become pain for earthly Man.

But in the deepening silence  
There grows and ripens  
What Man speaks to the Stars.  
To be aware of the speaking  
Can become strength for Spirit-Man.

Rudolf Steiner



“Out of desperate circumstances, the new Christ experience will evolve.  
Trying outer circumstances will become inner soul trials.  
Out of these soul trials, vision will be born.” -- R. Steiner, *For the Michael Age*



# DISCUSSION QUESTIONS

- What must we wrest from Ahriman?
  - As the East had to deal with Lucifer, so must the West deal with Ahriman
- What role do the Great Teachers of Humanity, as Moon beings, and the Vulcan beings play in the drama with Ahriman?
  - How do they help to prepare us?
  - Do they work with Lucifer to ‘warm’ technology?
  - Are they at work when we ‘love’ our devices?
  - What role do they have regarding the coming infertility?
- What will our connection to the physical Earth be in a millennium?
  - Will it be through avatars?
  - Will virtual reality be at a level ‘below’ the physical?
  - If without physical bodies, will all humans be here simultaneously?
  - Are those destined to be human on Jupiter to be given robotic bodies?
- Can we see the reunification with the moon as a step towards reunification with the sun (much later)?

# SCHEDULE

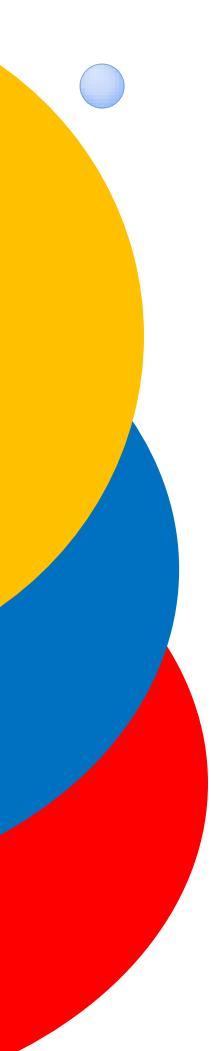
[www.thechristianmysteries.com](http://www.thechristianmysteries.com)

## March 24, 2017 Lecture

- 19:00 – 20:30 Technology and the Human Body – The Western Path

## March 25, 2017 Workshop

- 08:45-09:00 Registration, social time, tea/coffee
- 09:00-09:15 Welcome, Introductions
- 09:15-10:30 Merging Through Rhythms and Ethers
- 10:30-11:30 **The Three Movements with Natasha Moss**
- 11:30-12:30 Discussion: Protecting, Counteracting, Confronting
- 12:30-01:30 Lunch (BYO) together
- 01:30-02:30 Mythology and Facing the Future Without Fear
- 02:30-03:00 Eurythmy exercises and tools for balancing technical work
- 03:00-04:00 Structured Discussion: The Challenge of Our Times



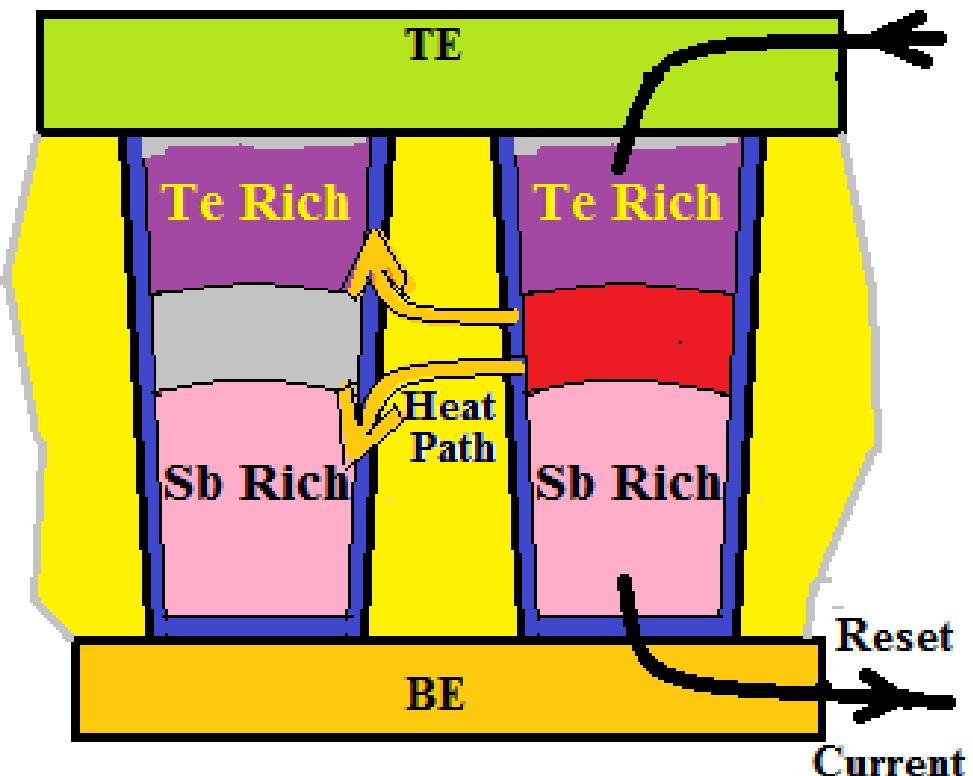
# CELL PHONE SAFETY

- Keep your phone distant, especially from organs
  - Use the speaker phone
  - Send text messages
  - Use a headset
  - Do not sleep with your cell phone near you
- Limit your cell phone use
  - Especially when reception is weak, e.g. only one or two bars
  - Keep cell phone calls short
- Wireless and wired headsets emit EMFs even when you are not using your phone

# BRAIN GATES

- Insert before or soon after birth
- Treat epilepsy or Parkinson's disease

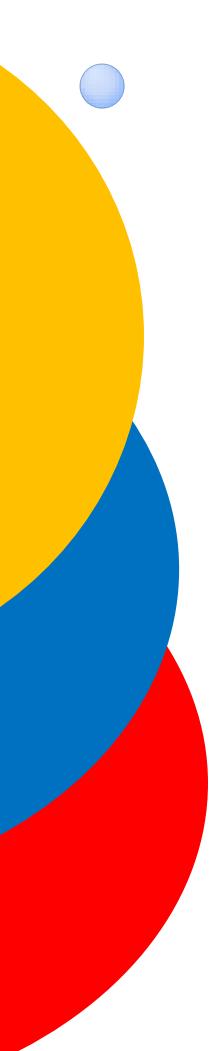
Metal liner as a solution to the thermal cross talk problem



Liner would need to be low electrical conductivity and high thermal conductivity

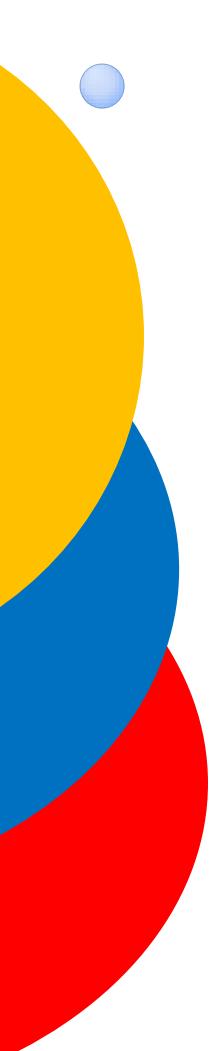
After W Kim et al

©Neale 2016



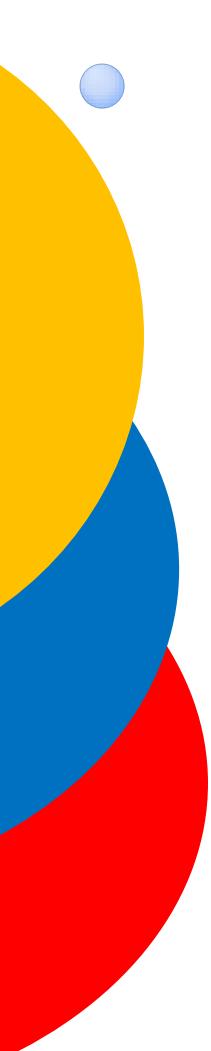
# BRAIN AUGMENTATION

- <https://futurism.com/becoming-immortal-the-future-of-brain-augmentation-and-uploaded-consciousness/>



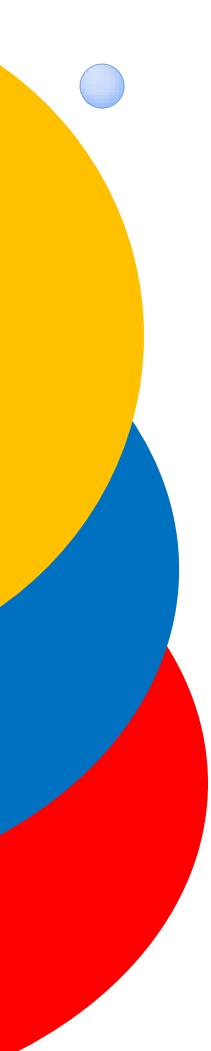
# HISTORY: SUN AND MOON SEPARATION

- “The beings of the highest rank belonging to our solar system now adopted a new procedure. The most impermeable substances were extracted and separated from the earth; **the severance of the moon** was brought about.
- The result of this was that the forces that had remained behind were no longer frustrated in their evolution. But **it was not until later that this moon became what it is today**. The time had now come when the physical and etheric evolution of man could find the tempo befitting its stage.
- The forces both of the sun and the moon now worked upon the earth from outside, maintaining the balance. Gradually, while the moon was emerging, a kind of softening, an amelioration of the bodies of men, again took place. The period just described is called in occultism the **Lemurian epoch, the epoch of the separation of the moon during the physical embodiment of the earth**.
- The epoch when the sun left the earth is called the **Hyperborean age**
- The epoch when the sun, moon and earth were still united is the **Polarian age**
- During the whole period when the sun was separated from the earth and the moon produced a hardening process on the earth to begin with and then left the earth during the whole of that period, sublime beings were influencing the differentiation. Their most important servants were the Spirits of Form, called the **Exusiai** in Christian esotericism, also Spirits of Revelation, Powers.”



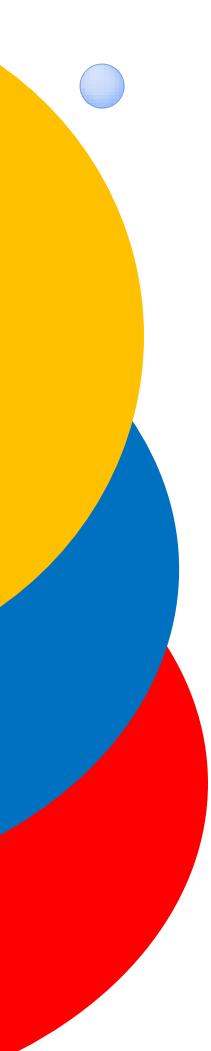
# HISTORY: SUN AND MOON SEPARATION

- “On **Saturn** it was the **Thrones**, the Spirits of Will who made the sacrifice of pouring out from their own substance the material for man's physical body.
- On **Old Sun** it was the Dominions or Spirits of Wisdom [**Kyriotetes**] who provided the substance for the etheric body,
- On Old Moon it was the Spirits of Movement or Mights [**Dynamis**] who made possible the formation of the astral body.
- On the earth the Spirits of Form or Powers instill the ego, bringing it about that in this phase of evolution the ego enters gradually into what had come into existence, namely, man's physical body, etheric body and astral body. This is the work of the Spirits of Form. In order that an ego-man could come into existence at all as the expression of ego consciousness, and that this coordination of the physical, etheric and astral bodies could take place, everything that has now been described was essential.
- The separation of sun and moon from the earth was necessary; it was also necessary for man to undergo a process of hardening followed by a certain softening. This could take place because the wise beings who guided and directed these happenings undertook it all as probationary measures for the good of evolution. A great deal in the evolutionary process of the earth is still done today by the sublime beings concerned, as probationary measures.”



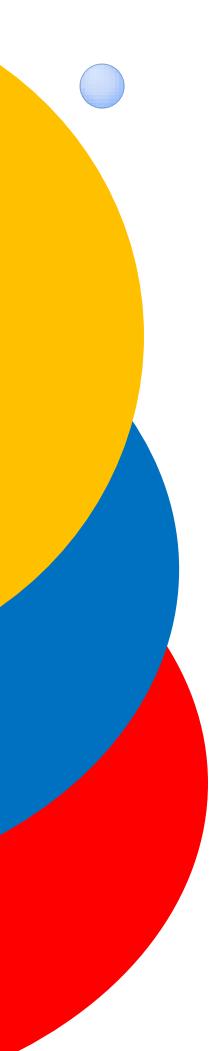
# MERGING MAN AND MACHINE

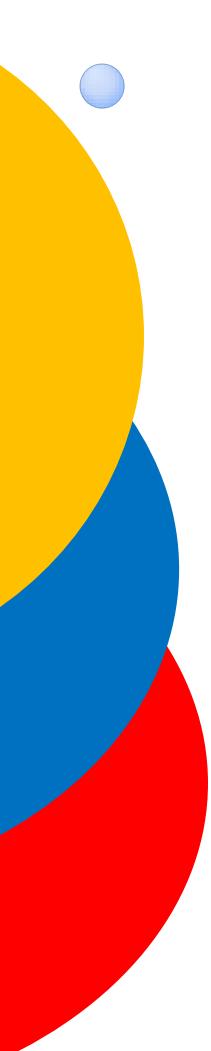
- "Now I will turn again to the fact that in this fifth post-Atlantean epoch humanity will have to find ways of dealing with great life-problems which in a certain sense were veiled by the wisdom of the past. I have already called your attention to them. One of these great problems will be concerned with finding out how to **place the spiritual etheric forces at the service of practical life**. I have told you that in this epoch we have to solve the problem of how the **radiations from human states of mind are carried over into machines**; of how human beings are to be brought into relation with an **environment which must become increasingly mechanized**. A week ago I pointed out how superficially this mechanization is treated in a certain part of the world. I gave you the example of how **an American way of thinking** tries to extend the realm of the machine over human life itself. I told you of the rest-pauses which were used in order to enable a given number of workmen to load up to 47½ tons, instead of a much lower figure; this involves simply the application of Darwinian natural selection to human life.
- Where this kind of thing goes on, the wish to yoke up human strength with the strength of machines is always involved. It would be quite mistaken merely to oppose these things. They are not going to fade away; they are on the march. The only question is whether in the course of world-history they are going to be brought on to the scene by men who are unselfishly aware of the great aims of earth-evolution and wish to shape these developments for the healing of mankind, or by groups of men who want to use them for their own or the group's selfish ends. That is the issue. The point is not what is going to happen, for it certainly will happen, but how it happens — how these things are handled. **The welding together of human beings with machines will be a great and important problem for the rest of the earth-evolution.**
- I have often pointed out, even in public lectures, that human consciousness depends on destructive forces. During public lectures in Basle I twice said that in our **nerve-system we are always in process of dying**. These **forces of death will become stronger and stronger, and we shall find that they are related to the forces of electricity and magnetism, and to those at work in machines**. A man will be able in a certain sense to guide his intentions and his thoughts into the forces of the machines. Forces in human nature that are still unknown will be discovered — forces which will act upon external electricity and magnetism.
- That is one problem: the bringing together of human beings with machines, and this is something which will exert ever-increasing influence on the future." -- *The Wrong and Right Use of Esoteric Knowledge*, lecture 3, 25Nov1917, Dornach, GA 178



# WRONG AND RIGHT WAYS

- "Whether to conquer the cosmic for mankind in a wrong, twofold way, or rightly in a one-fold way — that is the question facing mankind. From this will come a true renewal of astrology, which in its old form is atavistic and cannot survive. The wise Beings of the cosmos will enter into the struggle; one side will use the morning and evening processes in the way I have indicated; the West will prefer the midday processes, shutting out the morning and evening ones; and the East will prefer the midnight ones. Men will no longer manufacture substances on the basis merely of chemical attraction and repulsion; they will know that different substances arise according to whether they are made with morning and evening processes, or with midday and midnight ones. It will be known that such substances act in a quite different way on the triad, God, virtue and immortality — gold, health and prolongation of life. When the forces of Pisces and Virgo act in co-operation, nothing wrongful can be brought into being. Men will achieve something through which the mechanism of life will be detached, in a certain sense, from man himself, but will not give any one group power and rulership over another. The cosmic forces drawn from this direction will create remarkable machines, but only those that will relieve man of work, because they will carry a certain power of intelligence within themselves. And a Spiritual Science which itself reaches out towards the cosmic will have to see to it that all the great temptations which come from these machine-animals, created by man himself, are not allowed to exercise any harmful influence upon him."
- With regard to all this, the essential thing is that people should prepare themselves for it by not treating realities as illusions and by coming to a genuine spiritual conception and understanding of the world. To see things as they are — very much depends on that! But we can see them as they are only if we are in a position to bring the ideas of Spiritual Science to bear on reality. For the rest of the earth's existence the dead will be co-operating actively in the highest degree, and it is how they co-operate that will matter. Here, above all, a great distinction will arise. On one side the attitude of men on earth can rightly lead the co-operation of the dead in such a direction that the dead will be active out of their own impulse, an impulse coming from the spiritual world which the dead are themselves experiencing. But from the other side many endeavours will be made to introduce the dead into human existence by artificial means. Along the indirect path through Gemini the dead will be led into human life, with the result that human vibrations will pass over into the mechanism of machines and will continue to vibrate there in a quite definite way. The cosmos will impart motion to the machines by the indirect path I have indicated.
- It will thus be essential, when these problems emerge, that no improper methods should be applied to them, but only those elemental forces which belong to nature on their own account, and great care will have to be taken not to introduce improper forces into the realm of machines. In this occult sphere the human element must not be related to machinery in such a way that the Darwinian natural selection theory is used to determine the working capacity of human beings, in the way of which I gave you an example last week." -- *The Wrong and Right Use of Esoteric Knowledge*, lecture 3, 25Nov1917, Dornach, GA 178

- 
- “Forgive me if I now refer to something of great importance to our day by employing a rather trivial example. We must learn to use the Greek word ‘**Auton**’ (the same as appears in the modern word automobile) but not so that we apply it exclusively to **machines**, or understand it only in its external sense; we must learn to associate it as a ‘self-starting’ activity within the realm of spirit where it belongs. This advice might well be taken by our contemporaries. Men love a self-starting action in connection with machines, but they must learn to employ it also in connection with all they used to experience unconsciously in the Mysteries before the coming of Christ. This must now be learnt through ‘a setting of themselves in action,’ so that they gradually **become creative from within themselves**. The men of to-day will come to understand this when they fill themselves with the impulse brought to them by Christ.” --  
*The Gospel of St. Matthew, 11Sep1910, Berne, GA 123*



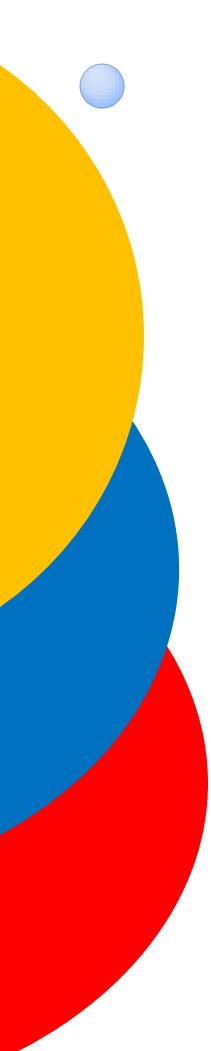
# MECHANICAL OCCULTISM

- “First, there are the capacities having to do with so-called **material occultism**. By means of this capacity — and this is precisely the ideal of British secret societies — certain social forms at present basic within the industrial system shall be set up on an entirely different foundation. Every knowing member of these secret circles is aware that, solely by means of certain capacities that are still latent but evolving in man, and with the help of the law of harmonious oscillations, machines and mechanical constructions and other things can be set in motion. A small indication is to be found in what I connected with the person of Strader in my Mystery Dramas.
- These things are at present in process of development. They are guarded as secrets within those secret circles in the field of material occultism. **Motors can be set in motion, into activity, by an insignificant human influence through a knowledge of the corresponding curve of oscillation.** By means of this principle it will be possible to substitute merely mechanical forces for human forces in many things. The number of human beings on the earth today in actual fact is 1,400,000,000. Labor is performed however, not only by these 1,400,000,000 persons — as I once explained here — but so much labor is performed in a merely mechanical way that we say the earth is really inhabited by 2,000,000,000 persons. The others are simply machines. That is, if the work that is done by machines had to be done by people without machines, it would be necessary to have 600,000,000 more persons on the earth. If what I am now discussing with you under the name of mechanistic occultism enters into the field of practical action, which is the ideal of those secret centers, it will be possible to accomplish the work not only of 500,000,000 or 600,000,000 but of 1,080,000,000 persons. The possibility will thus come about of rendering unnecessary nine-tenths of the work of individuals within the regions of the English-speaking peoples. **Mechanistic occultism will not only render it possible to do without nine-tenths of the labor still performed at present by human hands**, but will give the possibility also of paralyzing every uprising attempted by the then dissatisfied masses of humanity.
- **The capacity to set motors in motion according to the laws of reciprocal oscillations will develop on a great scale among the English-speaking peoples.** This is known in their secret circles, and is counted upon as the means whereby the **mastery over the rest of the population of the earth shall be achieved even in the course of the fifth post-Atlantean epoch.**”



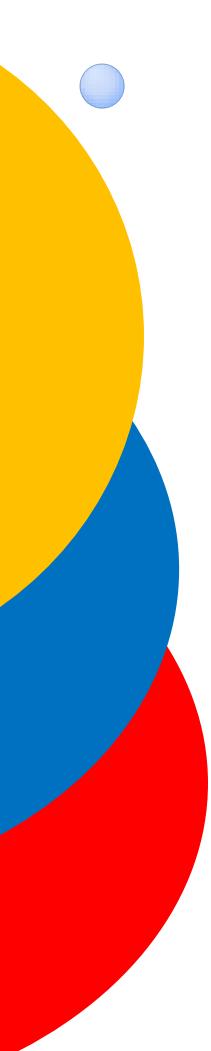
# DANGER OF VIBRATORY PHYSICS

- "Well, the whole way in which people construct machines varies greatly according to the nature of the machine in question; but everything tends towards the gradual development of these still imperfect, primitive machines into a kind of machine which depends upon vibrations, and where the aim is to make the machines **effective by means of vibrations or oscillations**, by means of movements which run a periodic course. Everything is hastening towards such machines. But if once these machines in their coordinated activity could be constructed in such a way as can be learned from the distribution of foodstuffs in the organization of the cow, then the vibrations which would be conjured up on the earth-globe through the machines, these small earth-vibrations, would so run their course that what is above the earth would sound together with, vibrate together with what is happening on the earth; so that our planetary system in its movements would be compelled to vibrate with our earth-system, just as a string tuned to a certain pitch vibrates in sympathy when another one is struck in the same room.
- That is the terrible law of the sounding in unison of vibrations which would be fulfilled if the alluring call of the cow would so decoy the orient that it would then be able to penetrate in an absolutely convincing way into the unspiritual, purely mechanistic civilization of the west and centre; and thereby it would become possible to **conjure up on the earth a mechanistic system fitting exactly into the mechanistic system of the universe**. Through this everything connected with the working of air, with the forces of the circumference, and everything connected with the working of the stars, would be exterminated from human civilization. What man experiences, for instance, through the cycle of the year, what he experiences through living together with the sprouting, budding life of spring, with the fading, dying life of autumn — all this would lose its import for him. Human civilization would resound with the clattering and rattling of the vibrating machines and with the echo of this clattering and rattling which would stream down upon the earth from the cosmos as a reaction to this mechanization of the earth.
- If you observe a part of what is active at the present time, you will say to yourselves: A part of our present-day civilization is actually on the way to having this terrible element of degeneracy as its goal." - *Man as Symphony of the Creative Word*, lecture 2, 20Oct1923, Dornach, GA 23



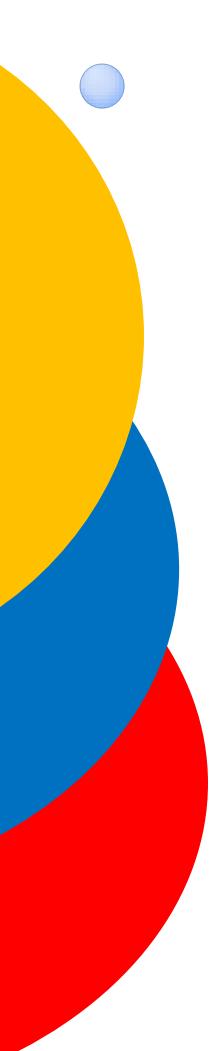
# MANKIND'S DESTINY

- “In the whole realm of so-called Nature there is nothing in the proper sense **un-living** – the one exception is what Man makes artificially; **man-made machines** and mechanical devices.” -- *First Scientific Lecture-Course*, lecture 1, 23Dec1919, Stuttgart, GA 320
- “**We have the task** of drawing down **still further on to the physical** plane that which flowed from the soul in Greco-Latin times.
- Man becomes in this way, a being who sinks **deeper and deeper into materiality**.
- If the Greek in his works of art has created an idealized image of his soul-life and poured it into the human form, if the Roman in his jurisprudence has created something that still further signifies personal requirements, then **our age culminates in machines**, which are solely a **materialistic expression of mere personal human needs**.”
- -- *Theosophy of the Rosicrucian*, Evolution of Mankind on the Earth, lecture 2, 4Jun1907, Berlin, GA 99



# OUR DESCENT INTO MATTER

- “**Mankind sinks lower and lower from heaven**, and this fifth period has descended deepest, is the most involved in matter.
- If the Greek in his creations has lifted man above man in his images (for Zeus represents man raised above himself), if you find still left in Roman jurisprudence something of man that goes out beyond himself (for the Roman placed more value on being a Roman citizen than on being a person and an individual) then in our period you find people who **utilize spirit for the satisfying of their material needs**.
- For what purpose is served by all machines, steamships, railways, all complicated inventions? The ancient Chaldean was accustomed to satisfy his need of food in the simplest way; today an immensity of wisdom, crystallized human wisdom, is expended on the stilling of hunger and thirst. We must not deceive ourselves about this. The **wisdom** that is so employed has **descended** below itself right into **matter**.”
- -- *Theosophy of the Rosicrucian*, Evolution of Mankind on the Earth, lecture 2, 4Jun1907, Berlin, GA 99

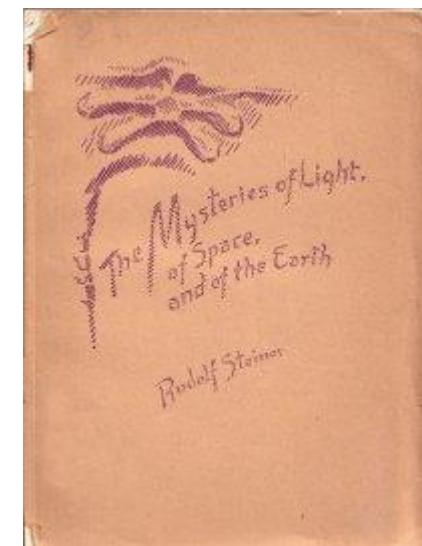
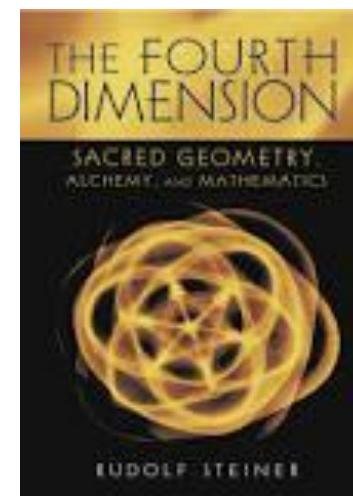
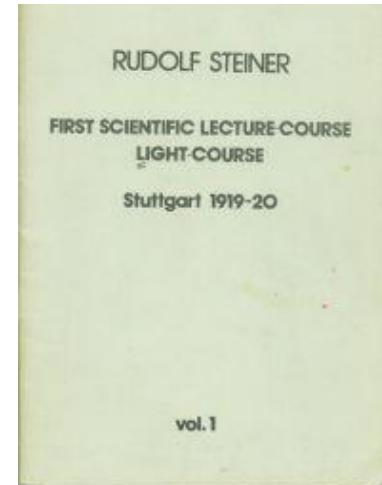
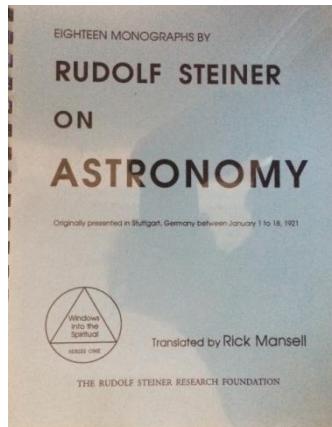


# FRUCTIFIED FROM THE SPIRITUAL WORLD

- “Human beings will come to a standstill before 50 years is over. They will not be able to discover anything more unless they decide to take spiritual influences up into their thinking. They will reach a dead end. They will have to go to the next stage which will be a development of a spiritual scientific point of view, then they will be able to have new discoveries.
- Today we have machines only because we have inherited the ancient thinking in our consciousness. We see that the time demands that we allow ourselves to become **fructified from the spiritual world**.
- And **only this fructification will make it possible** to be able to understand the spiritual facts as anthroposophical spiritual science gives us.
- And unless this happens, the great world tasks will not be solved.
- I have often mentioned the fact that we are living in a time when the second appearance of Christ will occur shortly, the Etheric Christ Being, that second appearance of Christ upon earth. However, it is necessary to have a preparation in order that this event does not go by unnoticed.”
- -- *Things in Past and Present in the Spirit of Man*, 7Mar1916, Dornach, GA 167

# SCIENCE LECTURE COURSES

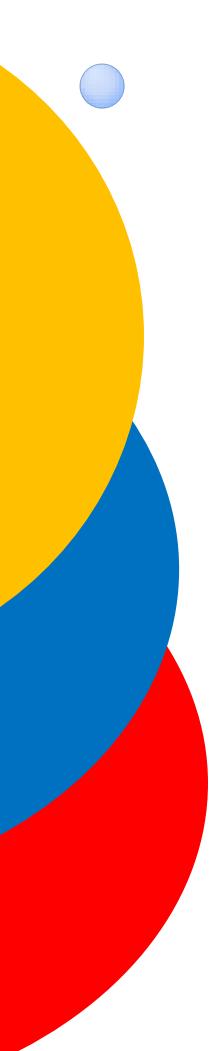
- First: Light
- Second: Warmth
- Third: Relation of branches to Astronomy
- Fourth: Fourth Dimension
- Prelim: Mysteries of Light, of Space, and of Earth



# APPROACHES TO MECHANICAL OCCULTISM

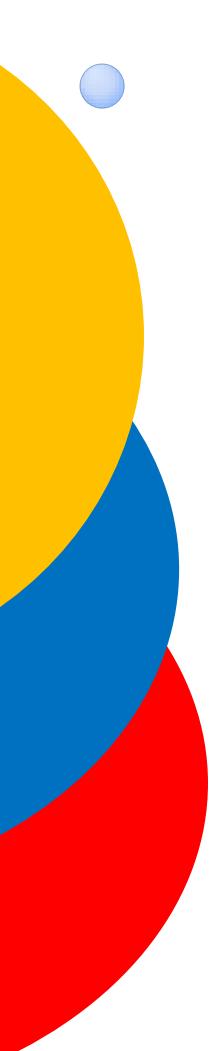
- Keely's pronouncements & indications obscured
- 1888: "Occultists generally believe that the **world is not yet ready** for the appearance of such terrible forces in the life of humanity. Man is too selfish, cruel, stupid, unsympathetic, bestial, to be entrusted with what in sober reality are secondary 'divine powers'." – Richard Harte, introduction to Mrs. Bloomfield-Moore's *Keely's Secrets*
  - Harte was secretary of the Theosophical Society in 1888
- Rudolf Steiner in *The Occult Movement in the Nineteenth Century* describes "**progressive and conservative sides**"
- **Strader / Mystery Plays**
- Intended to **transform social life**
  - Enables everybody to use this power in their own home
  - Nothing is said about its physical or technical characteristics
  - Maintains itself but cannot set itself going
- Technical realization miscarries
  - *The Soul's Awakening*
- **It should be done in America**
  - Wireless resonance

Which side are you on?



# FROM COARSE TO REFINED

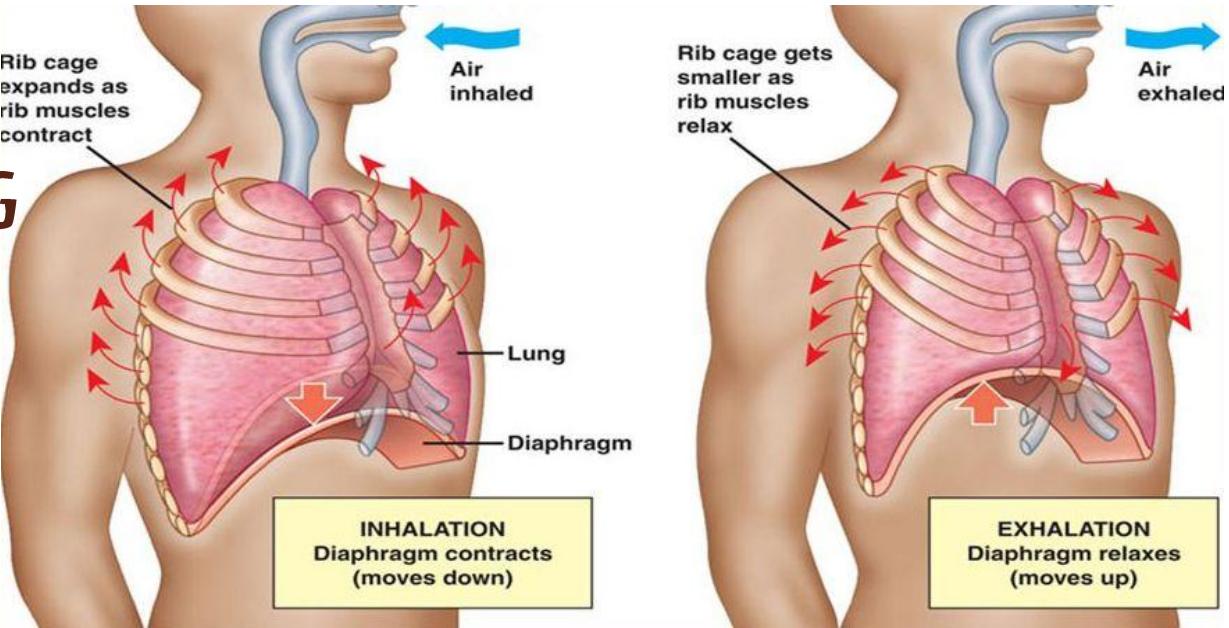
- Middle breathing is *air* (inhale to lungs) & *water* (exhale)
- Below breathing is more coarse
  - Digestion: modified exhalation
  - Metabolism:
    - What remains behind of inner activity from exhalation
    - Active in the element *Earth*
- Above breathing is more refined
  - Nerve-sense process: modified inhalation
    - Active in the element *Warmth & Light*



# REFINED BREATHING

- In head: process *not in the element of air* but **warmth**
  - Macrocosm: breathing-in but **not a breathing-out of warmth**
  - What is *exhaled by the nerve-sense system* becomes united with what is being *inhaled by the lungs*
  - The nerve-sense system carries on inhalation as a taking-in **light** from outside
    - What is taken in is *not released again* to the outside
      - It is given over to the coarser breathing process of the lungs
      - To the air inhalation and thus carried farther into the organism
    - Cosmic **warmth** enters the human organism by way of breathing
    - *Carried by the inhalation of warmth* into the human organism:
      - Light, macrocosmic chemism, and macrocosmic life
      - Inhaled Vitality: **Light ether, chemical ether, and life ether**

# KNOWN BREATHING

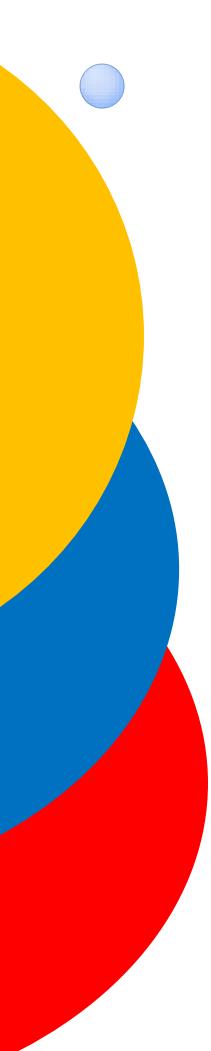


## 1. Outer Inhalation

- Union of what is inhaled with what comes down from above
- Sense-perception is only a breathing through the sense-organs

## 2. Outer Exhalation

- Leaves forces behind for metabolism; something not taken up
  - It gives something away



# INNER BREATHING

## 1. Inner Inhalation

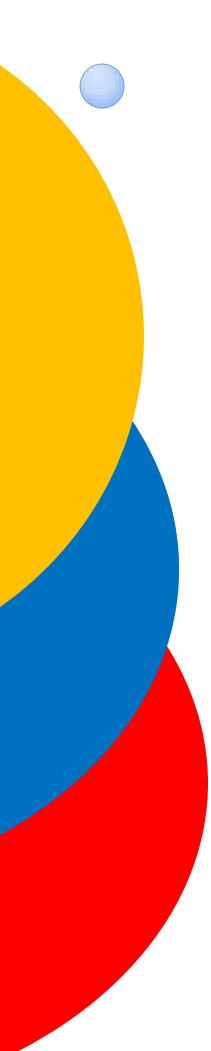
- Light unites with breathed-in air when it penetrates the eye – warmth is between them
  - Thoughts can only live in us if they are illumined by the light, if breathing is illumined by the light
- Actual metabolic digestive process is the union of inner inhalation with what the physical body does
- Light coming in by way of the warmth ether, and then coming to a stop
- Where the breathing enters, it comes to a “stop!” for the light
- The light spreads itself out. It is not carried farther by the human organism; it can spread out as light
- We carry within us a pure light organism, a light organism that **thinks**
- Thought, ideation is upheld by the Thinking system of man

## 2. Where inhalation borders on exhalation

- We find the chemism is carried in to that point through the nerve-sense process
- Now the chemism comes to a stop
- It is an inner chemism, a chemical organism in us that **feels**
- Fancy is already very close to the rhythm of blood-circulation’ a very inward breathing that comes into connection with the system of metabolism and the limbs, reaching into the Will

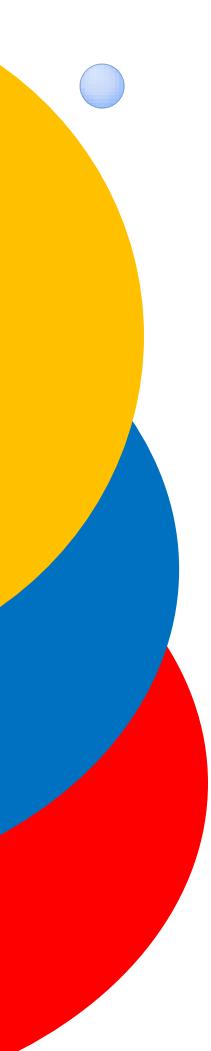
## 3. Inner Exhalation

- Life ether goes in and is taken up by the human being through the interplay of exhalation and metabolism
- Where exhalation leaves the digestive-metabolic process behind — not the external metabolic process of food consumption, but the inner metabolic activity
- There is a “stop!” for the life ether
- The life ether forms a human organism that **wills**



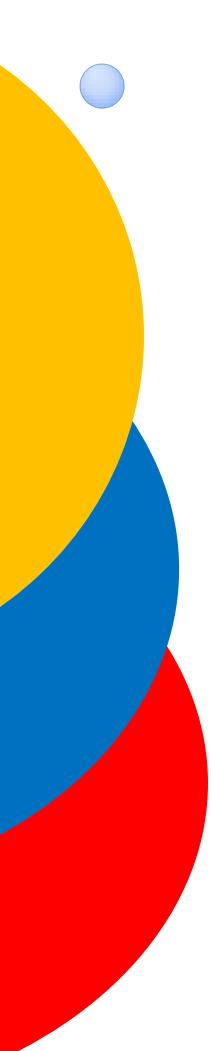
# FOUR PATHS

1. Above: Nerve paths are the external, physical paths for thinking
  - Incoming activity
  - Karma from previous earth-life
2. Upper: Arterial circulation
  - Karma for between birth and death flows in
3. Lower: Venous circulation: takes place between exhalation and metabolism
  - Karma for between birth and death dams up, accumulates, mysterious waves
4. Below: Lymph system and formation: process by which the life ether is taken up from below, from outside
  - Lymph goes into the blood (they are similar except for red corpuscles)
  - Beginning of the path of future karma driven into subconscious as a seed



# INFLUENCES

- Ahrimanic Power counts upon those human beings who are especially developed in the sphere of fancy — whose perception of sense-reality quite naturally transforms into the pictures of fancy
  - To cut off the evolution of mankind from the past, carry it on in the direction of its own intentions
- Luciferic Power reckons on those human beings who, while naturally more developed in the sphere of Will, are inspired by an inner love for the ideal world-conception to transform their vision of sense-reality actively into pictures of creative fancy
  - To keep human evolution entirely within the impulses of the past
  - Keep mankind from diving down into the sphere where the Ahrimanic Power **must be** overcome



# INFLUENCES - CONTINUED

- In this our earthly existence, we stand between two opposite poles
  1. Above us spread the stars
    - From there radiate the forces which are connected with all things calculable and regular in Earth-existence
    - The regular alternation of day and night, the seasons, the longer cosmic periods, are the earthly reflection of the real process in the stars
  2. Below us radiates the interior of the Earth
    - Irregular activities are at work in it.
    - Wind and weather, thunder and lightning, earthquakes and volcanic eruptions, are a reflection of this process of the inner Earth
- Man himself is an image of this existence of the Stars and Earth
  - In his Thinking system lives the order of the Stars; in the Willing system of his limbs the chaos of the Earth
  - In the Rhythmic system he experiences in consciousness his own earthly being, in free balance and interplay between the two

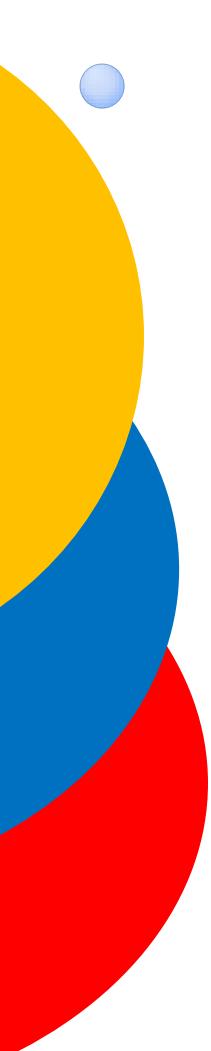
# HARMFUL EFFECT CONSIDERATIONS

Study describes a science-based protocol for evaluating patients for electromagnetic hypersensitivity (EHS)

- EHS has been *mischaracterized as a psychological issue*, resulting in profound suffering and violations of basic human rights
- "These different tests can be performed under less polluted, environmentally controlled conditions to diagnose chemical and electrical sensitivity precisely"
- Takes the guess work out of the diagnosis
  - Performed in 30,000 patients seen at the EHC-D in the last 35 years
- "The pitfalls of ignoring the principles and facts developed,...can lead to errors in diagnosis and treatment"

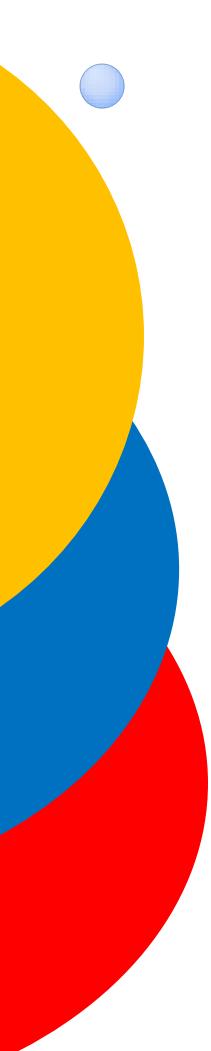
Source: Dr. William Rea of the American Academy of Environmental Medicine article: *History of Chemical Sensitivity and Diagnosis*

- [http://www.degruyter.com/ downloadpdf/j/reveh.ahead-of- print/reveh-2015-0021/reveh- 2015-0021.xml](http://www.degruyter.com/downloadpdf/j/reveh.ahead-of-print/reveh-2015-0021/reveh-2015-0021.xml)



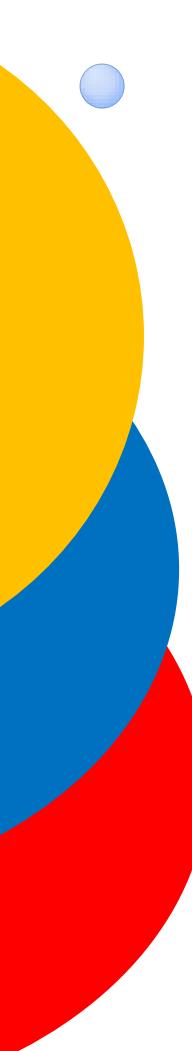
# AIR, WARMTH, LIGHT, SOUND, ...

- Jehovah breathed into man the living breath — the air — and that thereby a living soul came into being
- "With the descent of the elemental consistency in the direction of density — there is a corresponding ascent towards a more rarefied, more etheric condition, so that if we call "air" the elementary condition next below warmth, we must call the condition next above warmth, light, or light-ether. ...
- Then, above the light, we have a finer, more etheric state that we may give the name "sound-ether" to what works within substances as an organizing principle, causing chemical combinations and chemical analyses; it is something which man can only recognize with his external senses when it is transmitted by the air, but it lies spiritually behind all existence
  - We might call it "ringing" or tonic ether
  - Alternatively, because this spiritual sound organizes material existence according to number and weight, we might also call it the ether of numbers



# OSCILLATION AND RESONANCE

- Playground swing
- Circadian cycles
- Daily, weekly, monthly cycles
- Moon cycles
- Seasonal: Polar ice cap thaw and freeze
- Platonic Year: Ice Ages
- Solar system within the galaxy (within the Milky Way)
- Universe (big bang expansion – contraction)



# TOWARDS KEELY & STRADER MACHINES

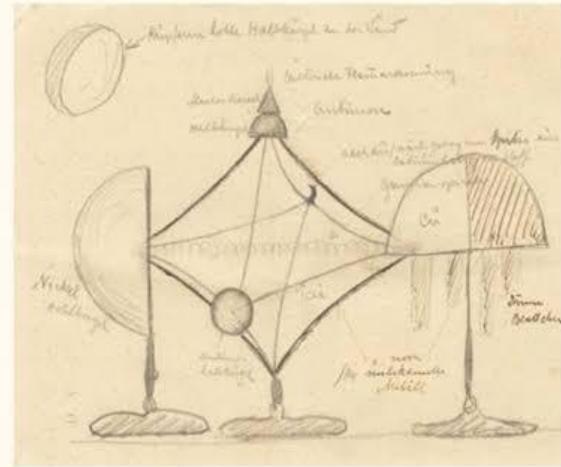
- The world's first brain-controlled drone race
  - Using their brainwaves, 16 pilots flew drones through an indoor course ten yards long
  - “With events like this, we’re popularizing the use of BCI instead of it being stuck in the research lab. BCI was a technology that was geared specifically for medical purposes, and in order to expand this to the general public, we actually have to embrace these consumer brand devices and push them to the limit.”
  - <http://futurism.com/university-florida-holds-first-drone-race-using-mind-control/>

# TRAGIC HISTORY

- Prop for Mystery Play
  - Lost after performances
  - Drawings were inadequate
- Lectures regarding Keely
- 1922 scientific efforts
  - Several scientists
  - Money to set up lab
  - Spent buying standard equipment
  - All efforts failed
- Continued confusion and misunderstandings
  - AnthroTech
  - Waldorf, arts, and curative movements

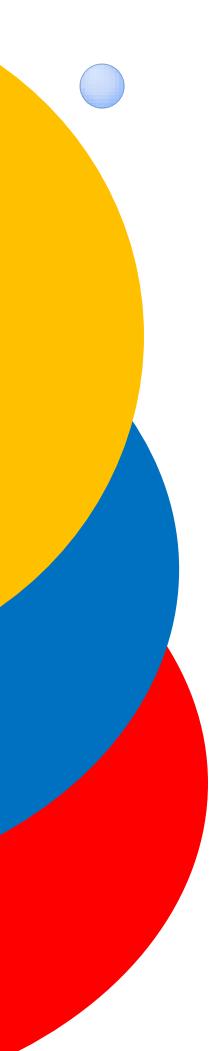
## THE SCHILLER FILE

Paul Eugen Schiller



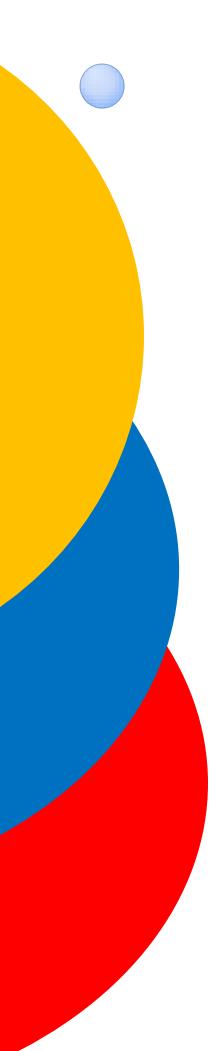
SUPPLEMENTS TO THE COLLECTED WORKS OF RUDOLF STEINER

SCIENTIFIC RESEARCH SUGGESTED BY DR. RUDOLF STEINER ON  
ELECTRICITY · TERRESTRIAL MAGNETISM · RADIO · CONDUCTION OF HEAT  
SOUND-SENSITIVE FLAMES · ETHERIC FORMATIVE FORCES · THE FOUR EETHERS  
RESONANT OSCILLATION · REFINEMENT OF PEAT FIBRES · AND MORE



# MICROCOSM OF THE MACROCOSM

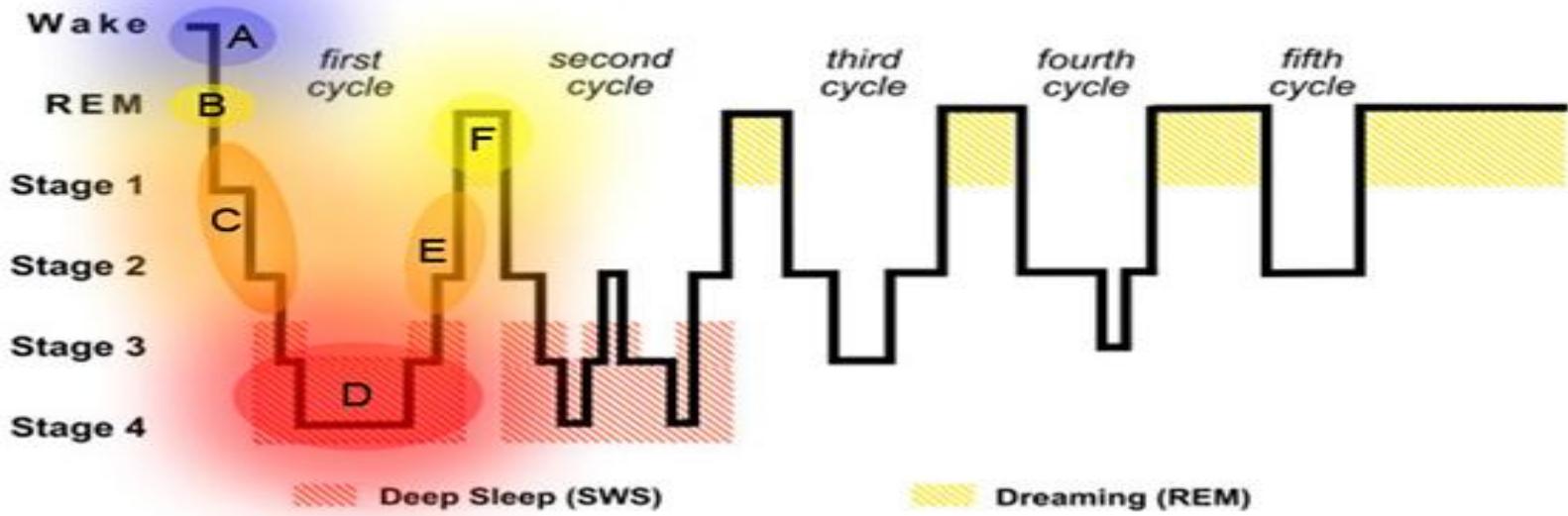
- Nerves
- Blood
- Nerve-Blood,  
breathing
- Thinking as  
breathing
- Thinking as light
- **Air** - oneness with  
the Air of the Earth –  
**willing**
- **Warmth** - oneness  
with the Warmth of  
the Earth – **feeling**
- **Light** - oneness with  
the Light of the Earth  
– **thinking**



# RELATIONSHIP OF MAN AND EARTH

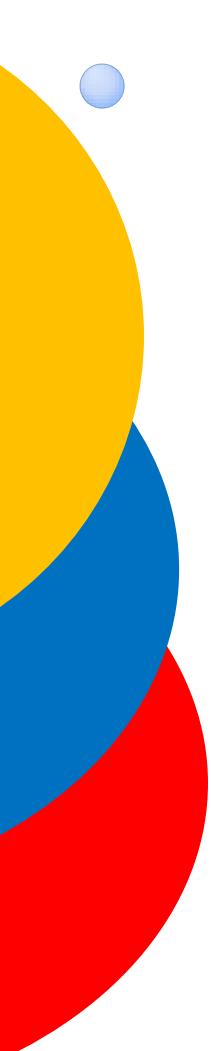
- Alpha waves: 8 Hz
- Breaths: 18/min or 25920/day
- Heart:Lungs is 4:1
- Eye: 24 pic/sec
- Ear: ?
- Sleep – Awake
- Earth's electrical resonance: 8 Hz
- Platonic year: 25920 years
- 4 seasons/year
- 24 hours/day
- ?
- Death – Rebirth

# SLEEP RHYTHMS



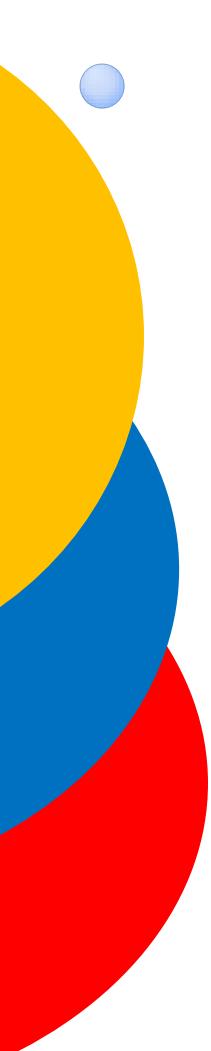
- A: awake state: ego, astral, etheric, and physical bodies are united
- B: relaxation towards sleep occurs, ego and astral body loosen
- C: partial separation of ego and astral bodies
- D: ego and astral bodies are essentially separated
- E: ego and astral bodies approach physical and etheric bodies
- F: astral and ego close enough for dreaming

Source: Seth Miller, <http://elements.spiritalchemy.com/articles/SleepAndDreams.html>



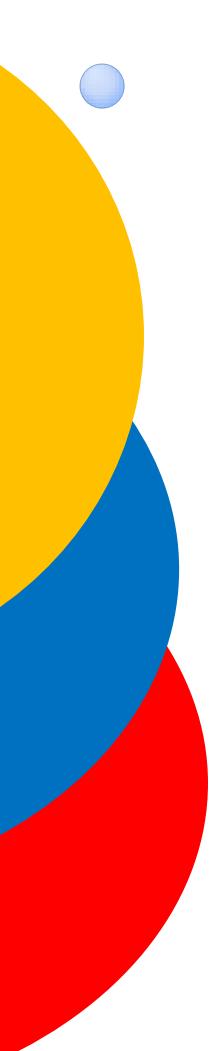
# NATURAL AND ARTIFICIAL RHYTHMS

- Adjust with season
  - Bed time
  - Meals
  - Study/work ratio
  - Home warmth
- Adjust with cosmos
  - Celebrations
  - Moon events, tides
  - Planting/harvesting
- Set bed time 10 pm
- Fasting 1 day/week
- Meditate at 8 am
- Will act at 11:30 am
- Grain of the day
- Concerts TH nights
- Coffee w/friend
- Study group rhythm



# TERRESTRIAL VIBRATORY PHYSICS

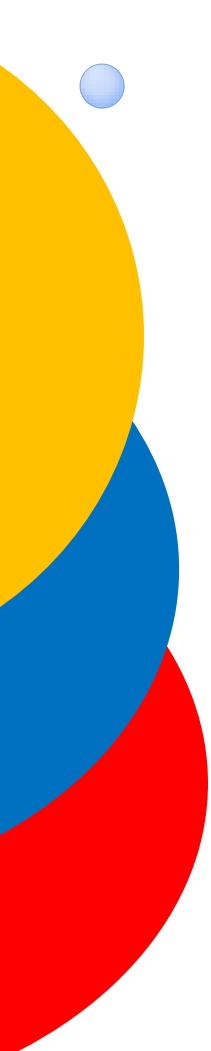
- Schumann oscillation of the earth's magnetic field:
  - Frequency: 8 Hertz (cycles per second)
  - Frequency of human brain waves: 8 Hz
- Bodily circadian rhythms:
  - Daily cycles of metabolic activity accompanied by changes in hormone secretion such as melatonin from pineal gland
  - Necessary part of life in organisms including human beings
  - Strongly influenced by environmental electromagnetism
- Complex rhythmic changes
  - Earth's magnetic field and our moon
  - Movement of the planetary bodies reveals, purely at the level of electromagnetism, the vibratory connectedness of the human being with the whole cosmos



# INNER AND OUTER RHYTHMS

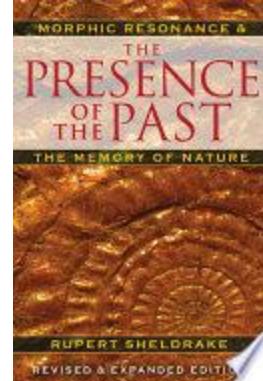


- What entity guides a given rhythm? Moon? Sun? Planets?
  - What is the best time of day to meditate?
  - To perform experiments or develop mechanical occultism?
  - Embryology: 10 moon cycles (as a memory)
- “The soul has a 14 day period of creative productivity, then a 14 day empty period” – R. Steiner, *Metamorphoses of the Soul*, lec.9, GA56, 9Dec09
- A person becomes free inwardly by making an external rhythm into an inner one – as has human and consciousness evolution
  - We have long since freed ourselves from the rhythm which connected our inner being with the moon
  - Hence we have emphasized that man lives through the phases of the moon inwardly, but these experiences are not caused by the moon in the sky
  - The course of the moon shows a similar rhythm because man has retained the rhythm inwardly, though outwardly he has made himself free and independent of it
  - The tides, as well as the course of the moon, are caused by deeper spiritual forces ***in the living earth***



# MERGING MACHINES WITH OUR BODIES

- Physical body: transient but appearance of longevity
  - New: used by consciousness soul as its instrument, brain-thinking
  - That which forms crystals in the mineral realm is permeated in man by the Consciousness Soul e.g. magnetite crystals in the brain
- Etheric body: less-transient, motion, flowing river
  - Used by intellectual soul as its instrument
  - "No man ever steps in the same river twice" – Heraclitus
- Astral body: seat for birth of eternal, airy
  - Used by sentient soul as its instrument
- Ego 'body': eternity lives through the spirit, fiery
- Merging of machines and mankind
  - While it appears at the physical, it is more so at the etheric
    - Thinking, Feeling, & Willing in the soul act through the etheric
    - We couple to machines by harnessing the etheric
  - **What happens to such an etheric body?**
    - Does it become "parched" (where Ahriman can attach)?
    - *For my yoke is easy and my burden is light* – Matthew 11:30



# SHELDRAKE'S MORPHIC RESONANCE

- “is the influence of previous structures of activity on subsequent similar structures of activity organized by morphic fields. It enables memories to pass across both space and time from the past. The greater the similarity, the greater the influence of morphic resonance. What this means is that all self-organizing systems, such as molecules, crystals, cells, plants, animals and animal societies, have a collective memory on which each individual draws and to which it contributes. In its most general sense this hypothesis implies that the so-called laws of nature are more like habits. ... Form-shaping could not be inherited through genes. ... Morphic resonance involves the transfer of information across space and time.”