



FOUNDATIONS FOR A MORAL TECHNOLOGY

Exploring The Western Path

Seattle

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VERSE FOR MORAL TECHNOLOGY

Sensory eyes have I
That I might see through them
The light of bodies.
And the spirit stamped my body
With sensation and thought
And feeling and will
So that through them I might
 perceive bodies
And work upon them.
The germ of my body lay in the
 spirit.

The germ of the spirit lay in my body.
And I will incorporate in my spirit
Suprasensory eyes,
So that I might see the light of the
 spirits.
And I will stamp my spirit
With wisdom and strength and love
So that the spirits may work through
 me
And I become the self-conscious
 instruments
Of their deed.
The germ of the spirit lies in my body.



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
 - 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
- Note the typical season*
- Breaking the secret power*

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





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

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.”
- *The Wrong and Right Use of Esoteric Knowledge*, lecture 3, 25Nov1917, Dornach, GA 178



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



WHERE TO WELD TO OUR 4-FOLD BODY?

- Physical body: transient but appearance of longevity
 - 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 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 THROUGH RHYTHMS AND ETHERS INTO MATTER

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RHYTHMS: ELEMENTS AND ETHERS



RHYTHMS AT BOUNDARIES

- Visible
 - Air-water
- Transfer
- Medium





HOW TO ATTAIN A MORAL TECHNOLOGY

- “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



MYSTECH: MYSTERIES OF TECHNOLOGY

- 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/>

STEPS TO 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
 - What can we learn from Keely?
 - Relationship to 'Etheric Technology'



ALREADY YOUR MOOD CAN BE DETECTED

- [MIT](#)

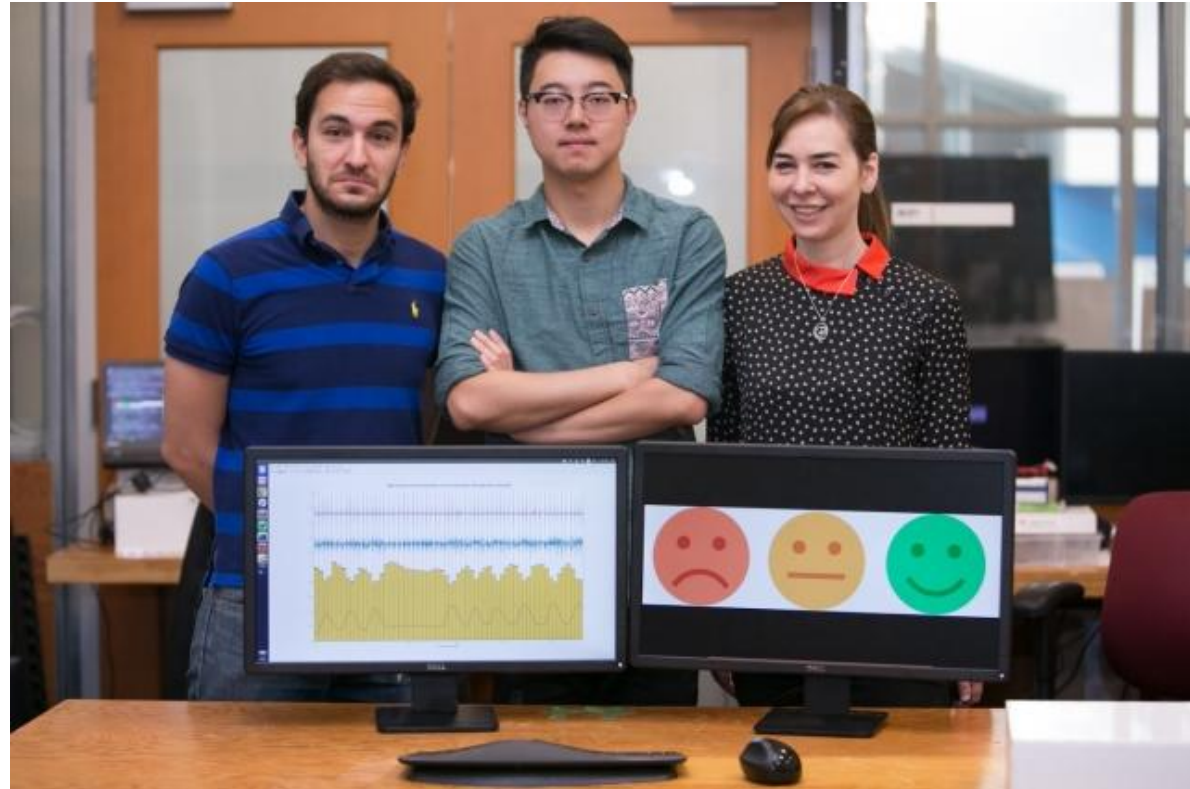
CSAIL device
uses RF waves

Measures

1. heartbeat
2. **breathing**

Tell if you're

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



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

- Detects up to 8 emotions



WHAT CAN BE DETECTED IN BREATHING?

Inhalation

- Air
- Astral
- Oxygen – Nitrogen
 - Life – Death
- Spiritual beings absorbed into one's temple

Exhalation

- Vapor
- Etheric
- CO₂ : Carbon
 - Philosopher's Stone
- Moral inclination visible to initiate
 - Can it 'transmit' to a machine?

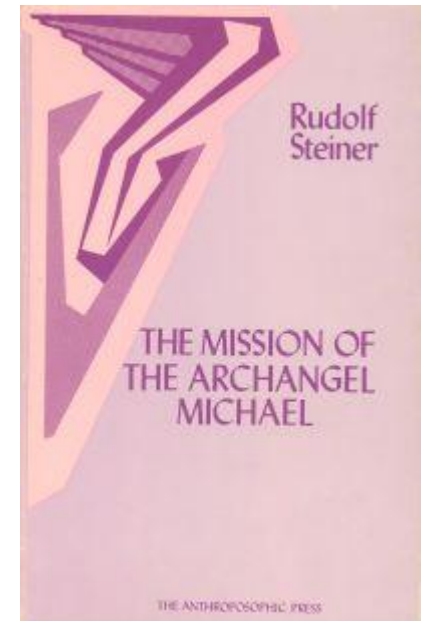
WHAT DO WE BREATHE?



- Could we breathe water and still be human?
 - Atlantean: water-air
 - Lemurian: air-fire
- What about in the future?
- What will we breathe?

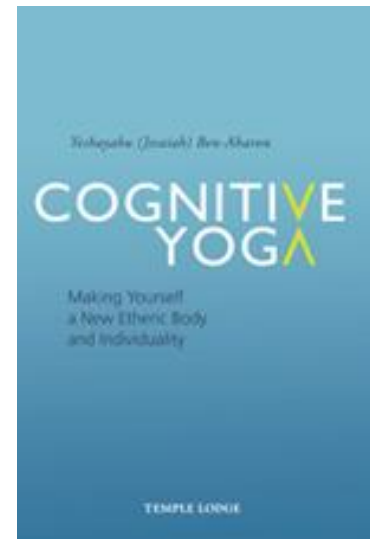
BREATHING AND YOGA

- 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



COGNITIVE YOGA

- Yeshayahu (Jesaiah) Ben-Aharon
- *Making Yourself a New Etheric Body and Individuality*
- A new cognitive and perceptual yoga, where one exhales personal thinking into Universal world thought outside the body, and inhales pure color and sensation to transform the body
- Method for uploading our life and consciousness into a freely created spiritual body
- It shows the individual how to develop, above all else, in a truly moral sense. How? By leading human consciousness to the field and source of all moral impulses.





MORALITY AND BREATHING

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

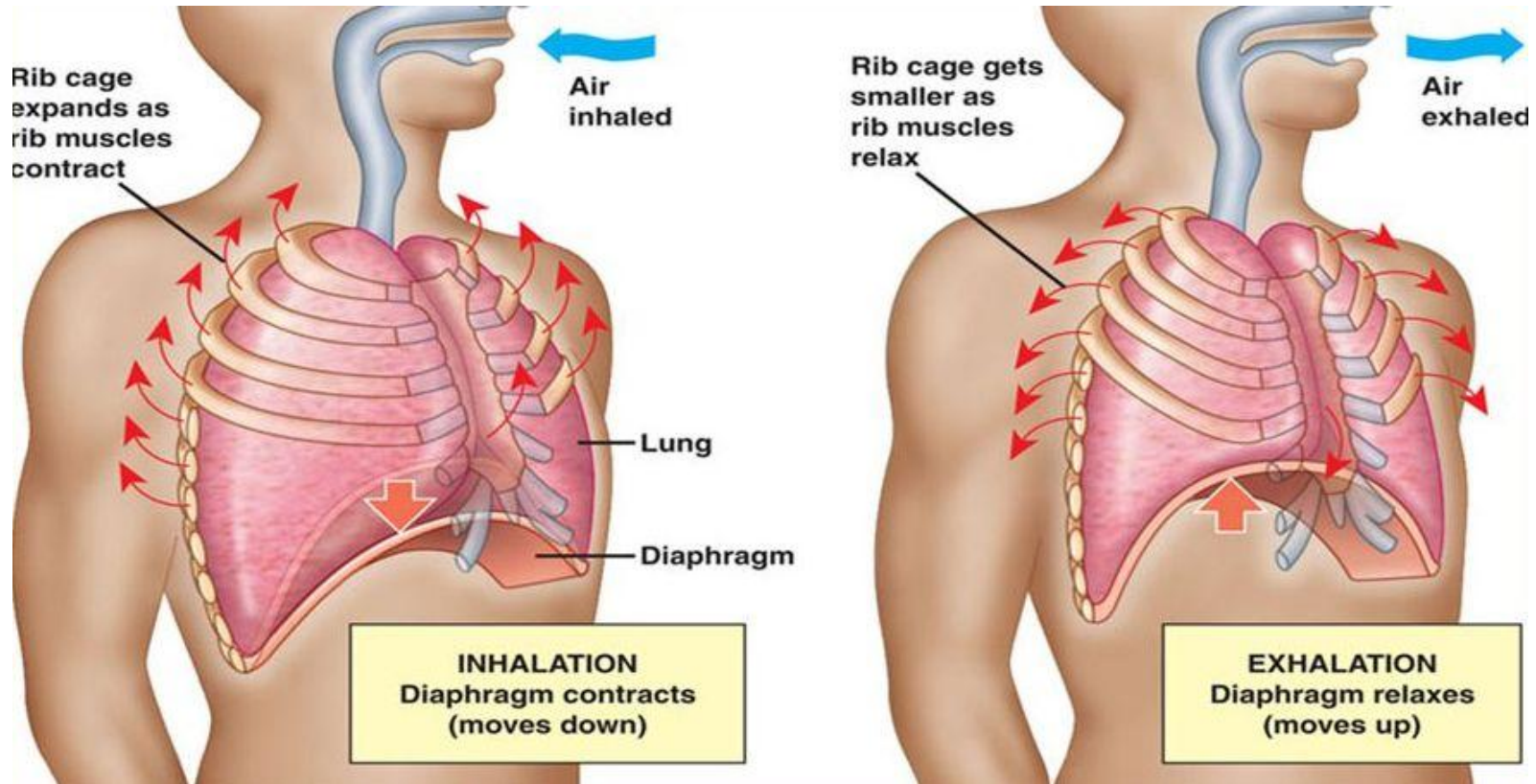
- A person's moral or immoral behavior **can be 'seen'** in the **steamy breath** [by an initiate today, in the future: all]
- A man's **moral and immoral nature** in the ordinary sense of the word is **actually visible in the etheric-astral content of the steamy breath**
- Although the physical part 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



BREATHING

Can it lead to a Resonance Technology?



Mechanical perspective



BREATHING: FROM COARSE TO REFINED

- **Middle breathing:** *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 ethers *Warmth & Light*



INHALATION

- Natural Science: we inhale oxygen
- Spiritual Science: we also inhale **formative forces w/air**
 - **An activity directed by the astral body**
 - A human being comes into **being** in the **element** of air
- When asleep, microcosmic astral body leaves thus macrocosmic astrality is all the more active
 - Control of inhalation during sleep comes from outside
 - That is why breathing during sleep is different
 - Close to the earth, climate and other factors can make cosmic astrality abnormal



REFINED BREATHING - THINKING

- **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**



EXHALATION (NOT SAME AIR SUBSTANCE)

- Natural Science: we exhale carbon dioxide
- Spiritual Science: not a passive process but **active**
- Process occurs in the *fluid* element through **etheric body**
 - When asleep, etheric remains with physical body; no change



OUTER BREATHING RECAP

- Outer Inhalation
 - Union of what is inhaled with what comes down from above
 - Sense-perception is only a breathing through the sense-organs
- Outer Exhalation
 - Leaves forces behind for metabolism; something not taken up
 - It gives something away



INNER INHALATION

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



BORDER OF INHALATION & EXHALATION

- **Chemism** is carried in to that border through the nerve-sense process
 - Now the chemism comes to a “**stop**”
- Inner chemism: a chemical organism in us that **feels**
- Fancy: very close to the **rhythm** of blood-circulation
 - An inward breathing that comes into connection with the system of metabolism and the limbs, reaching into the **Will**



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**



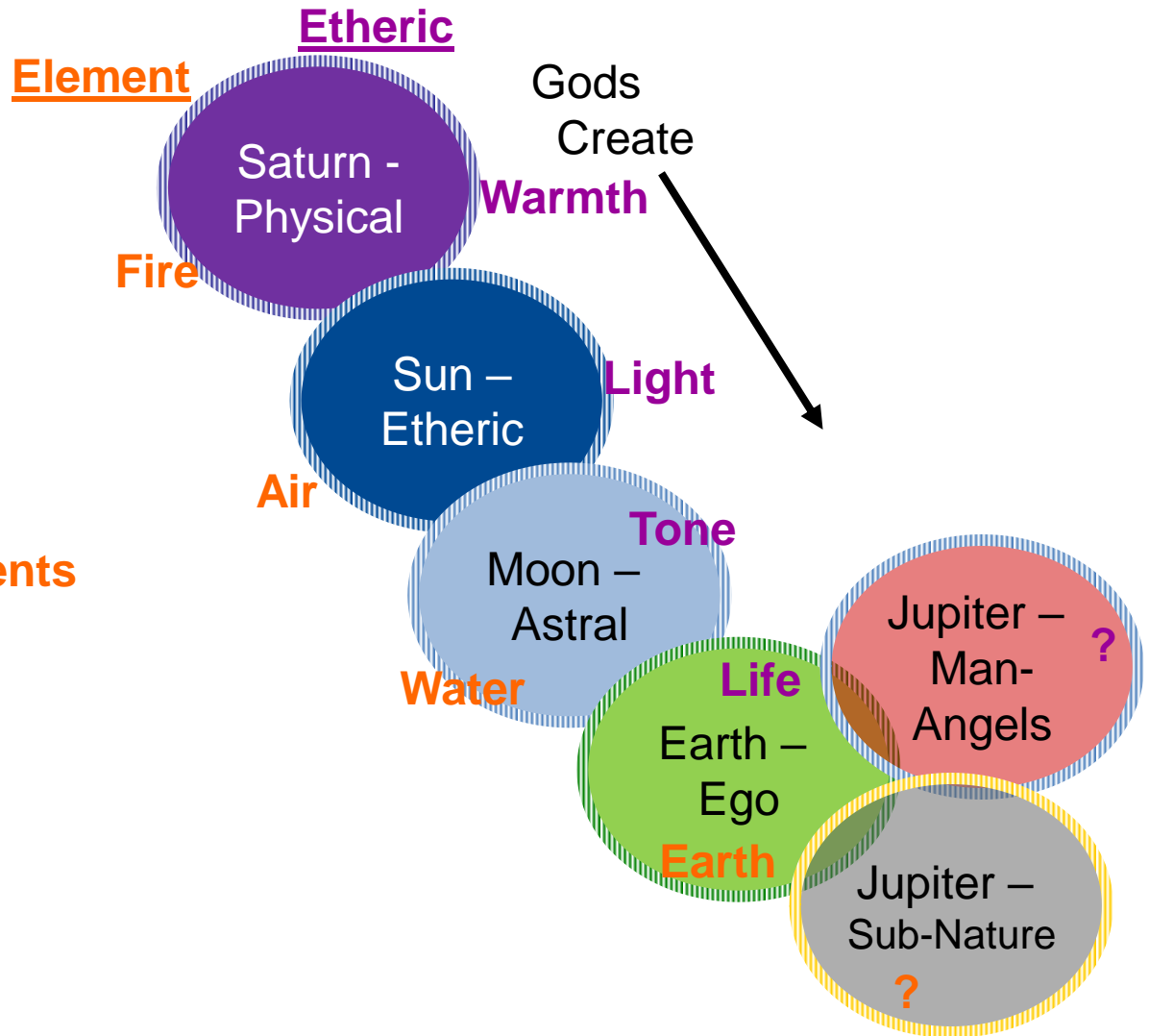
MERGING MACHINES WITH OUR BODIES

- Moral Impulse from Ego→Astral→Etheric→physical
- 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
 - Likely, we will 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

EVOLUTION OF ELEMENTS AND ETHERS

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

Elements





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

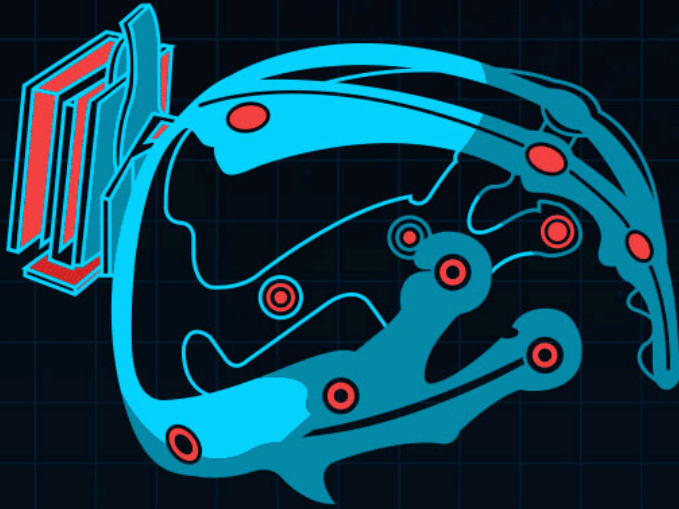
- “We are in fact emerging from the epoch when each of us had, so to speak, his own continuation to himself as to the physical body.
- In the new epoch that is now beginning — brought on by the present leadership of **Michael** — we shall work at the **spirit-seeds of the physical bodies** of men in 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
 - Astrobees: flies around the International Space Station
- Will such robots remain “in space use only”?
 - Autonomous vehicles
 - Humanoids



BRAIN-COMPUTER INTERFACES



NONINVASIVE

Involves simple wearables that register the EM transmissions of neurons, with no expensive or dangerous surgery needed. This technique is certainly easier, but suffers from poor resolution caused by the skull's interference with signals.

PARTIALLY INVASIVE

Devices are implanted within the skull but not within the brain tissues. Produce higher quality signals than noninvasive techniques by circumventing the skull's dampening effect on transmissions, and has less risk of scar tissue buildup.



HELPING WITH LOCKED-IN SYNDROME

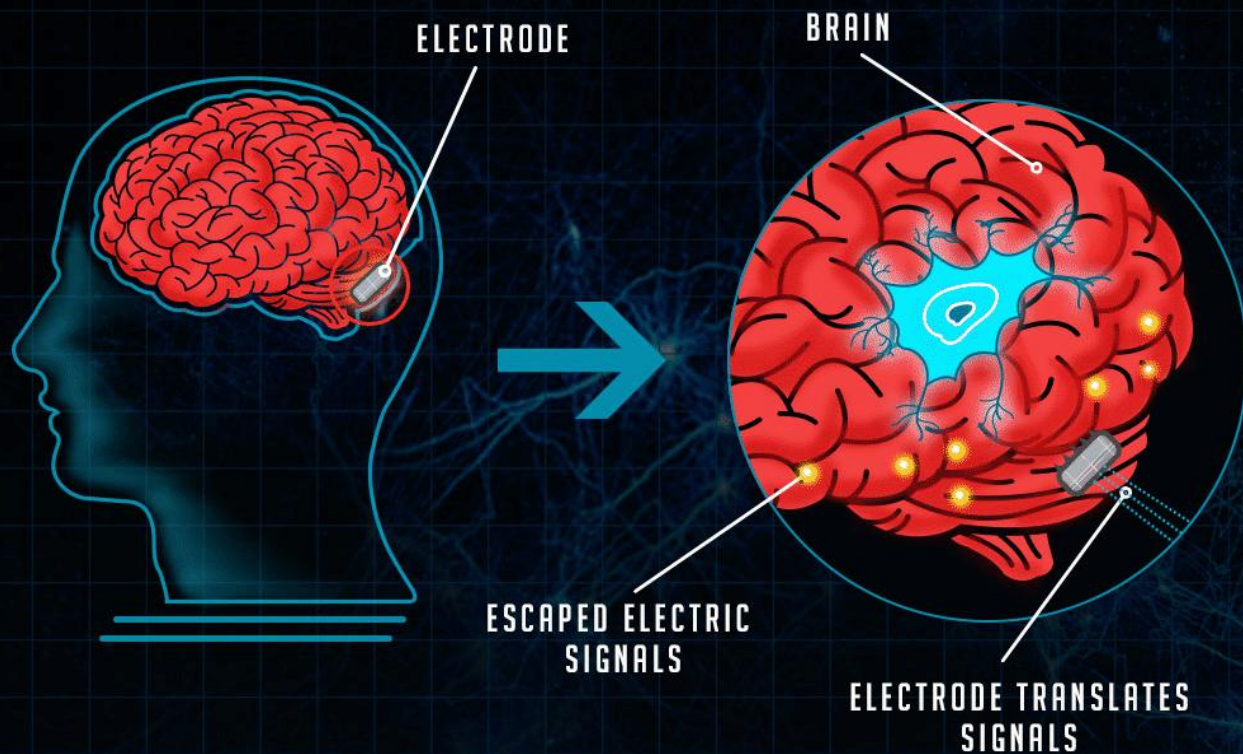
- Uses near-infrared spectroscopy (NIRS) and electroencephalography (EEG) to measure blood oxygenation and vibratory activity in the brain
- After calibration, the patients were able to respond questions with a "yes" or "no" using their 'thoughts'
- Slippery slope



BRAIN-COMPUTER INTERFACES

INVASIVE

Signal-transmitting devices are implanted directly in the brain's gray matter. This method produces the highest quality signals, but scar tissue buildup can cause signal degradation.



BRAIN-COMPUTER INTERFACES

4. External, **Body**-Computer Interface

- Not quite Moral Tech
 - Interface, not a 'Driver'
- Signatures
- Microsoft [Project Oxford](#)
- Apple [Emotient](#)
- MIT [CSAIL](#)

Our Device





LINKING THE ETHERIC TO THE ROBOTIC

- “Is not Animal Motion performed by the Vibrations of this Medium [etheric body], excited in the Brain by the power of the Will...?” – Isaac Newton
- Is there a right and a wrong way to do this?
- “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)

ATTACHMENT OF A SECOND BEING

“During the **course of the Fifth PACA**, 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 as well as the Double





MERGING MAN AND MACHINE

- “Now I will turn again to the fact that in this 5th 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 AND RIGHT WAYS

- “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.” — *The Wrong and Right Use of Esoteric Knowledge*, lecture 3, 25Nov1917, Dornach, GA 178



WRONG POLARITY THROUGH GEMINI

Magnetism and the Ahrimanic Double

- “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;
- **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 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 POLARITY THROUGH SAGITTARIUS

Duality of Human Nature (Centaur)

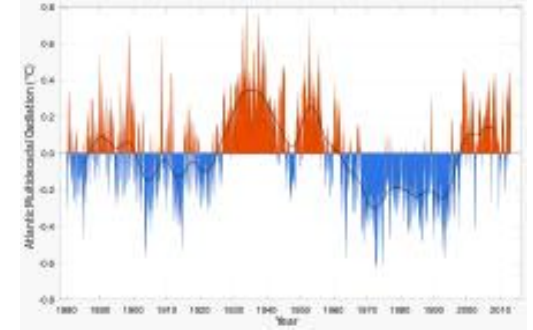
- “Other **brotherhoods**, concerned above all to divert attention from the Mystery of Golgotha, will try to make use of the **duality in human nature** — the duality which in our epoch embraces man as a unity, but includes within him his lower animal nature [sacrifice of Chiron].
- A human being is 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 PACA.
- **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



WRONG AND RIGHT WAYS

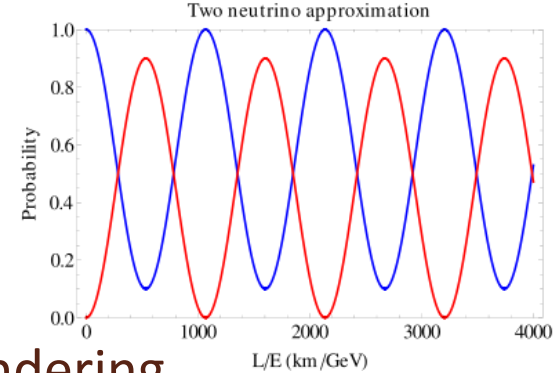
- “It will thus be essential, when these problems emerge, that no improper methods should be applied to them, but **only those elemental forces which belong to nature on their own account**, and great care will have to be taken **not to introduce improper forces** into the realm of machines.”
- -- *The 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)

SECRETS DISCLOSED



- “First, there are the capacities having to do with **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**.”

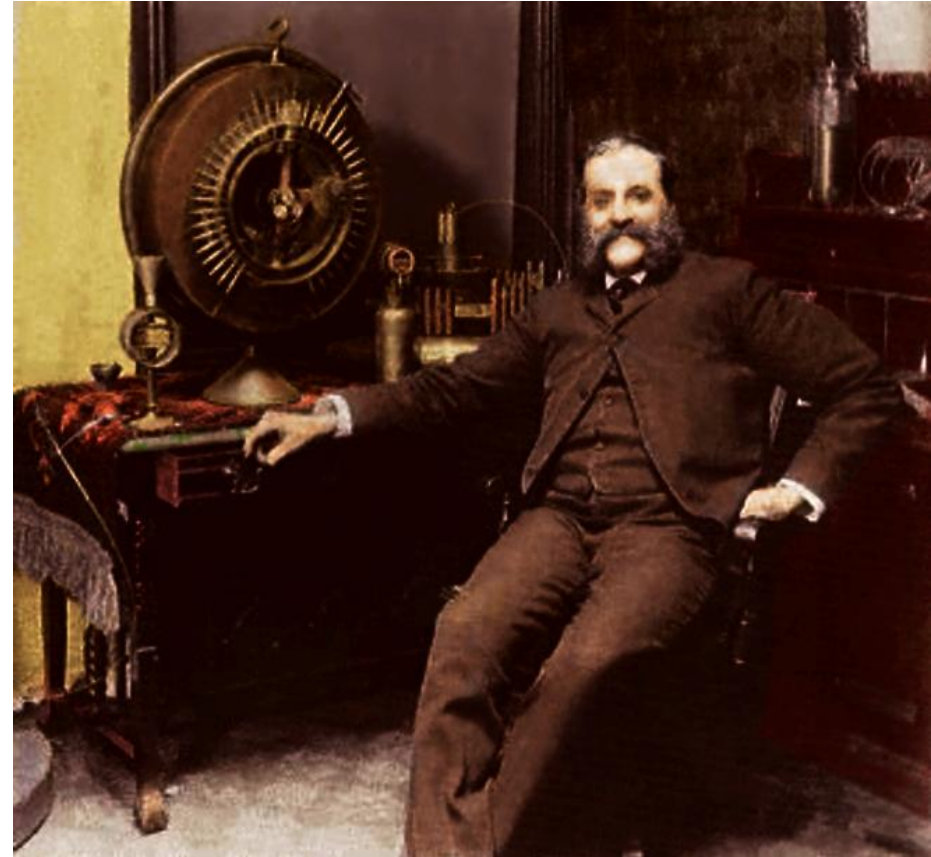
MECHANICAL OCCULTISM



- “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 PACA.**”
- The Challenge of the Times, Lecture 3, 1Dec1918, Dornach, GA 186

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
- Moral impulse using
 - Life ether, tone ether, and light ether
 - Lifted heavy objects





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 that 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.” *[text refers here to Hiram Abiff and Cain]*
- – *The Temple Legend*, lecture 20, 2Jan1906, Berlin, GA 93



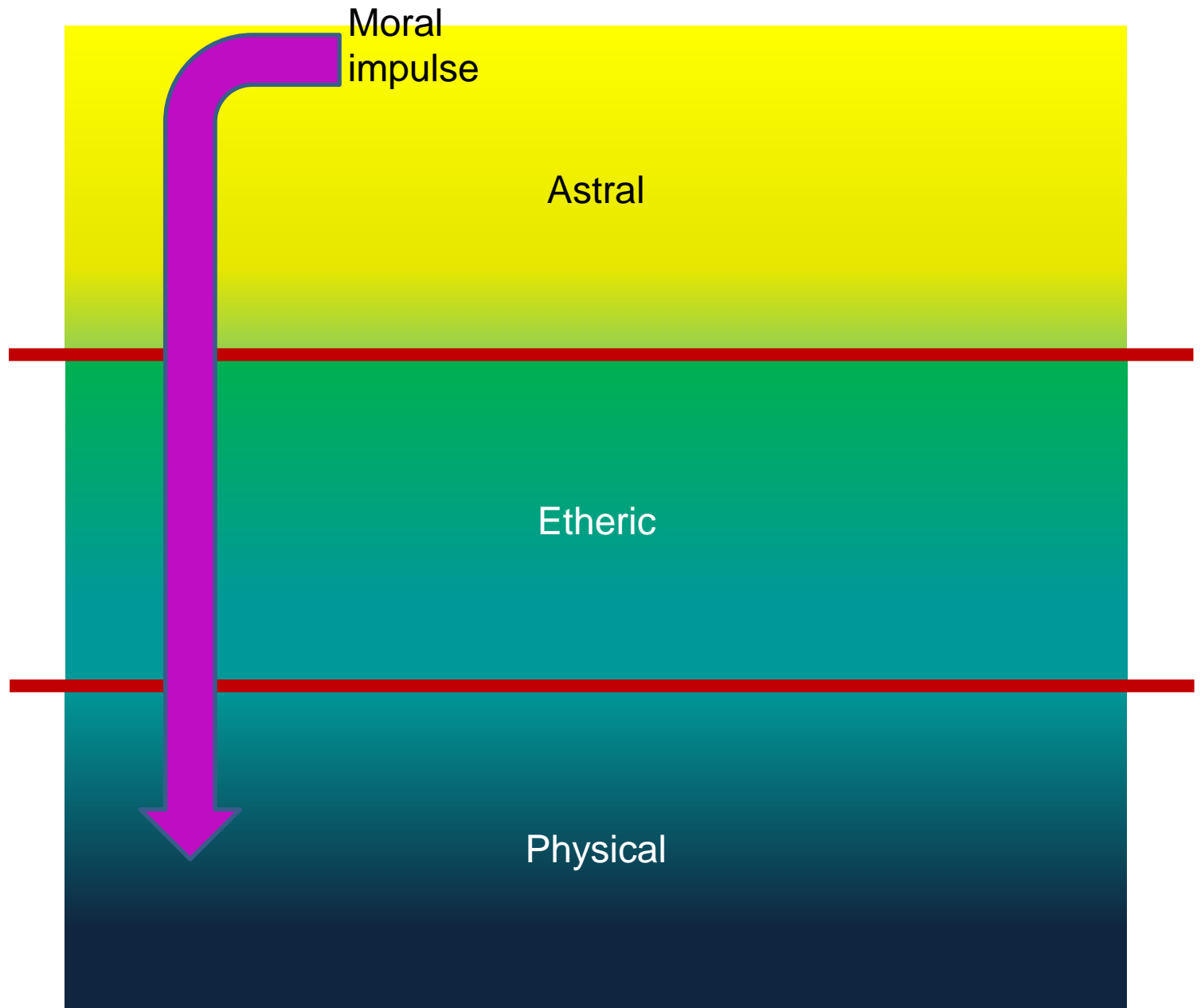
TOWARDS KEELY & STRADER MACHINES

- 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/>

THE POWER OF THE HUMAN SOUL

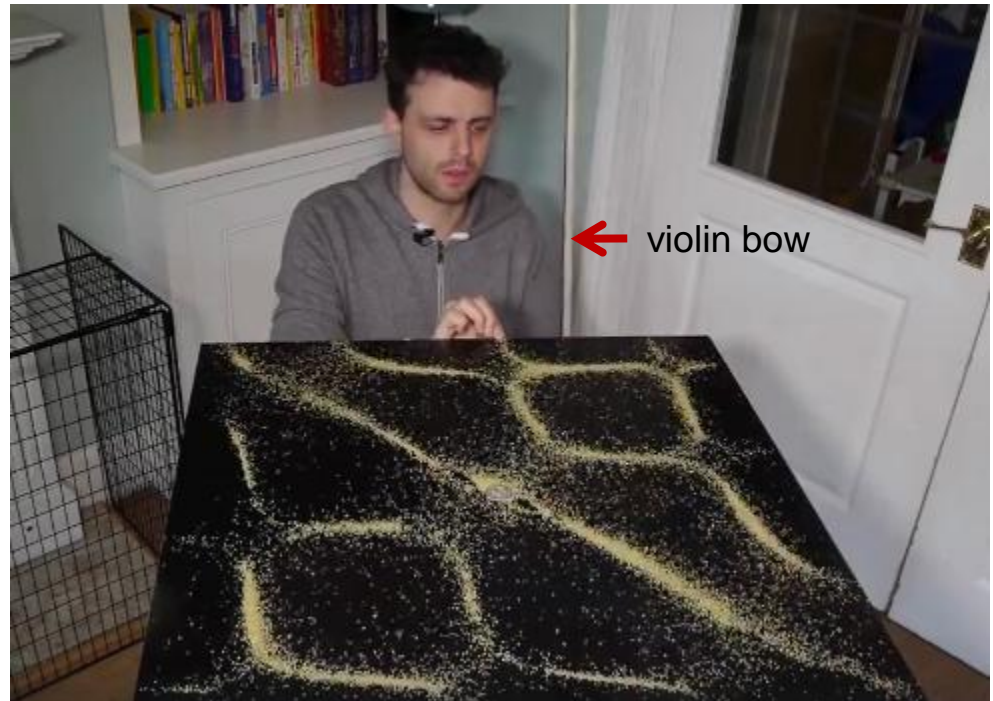
- The telephone and the extension of the soul over space
 - Re-soul print , articles stored on the internet, recordings
- The automobile and extension of touch sensation
 - This experience will vanish soon – self driving cars
 - What does it mean when one gets a “feel” for their car?
- Can our soul operate ‘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](#)





RESONANCE & HARMONIC OSCILLATIONS

- 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





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

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**



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](#)





CONCLUSIONS

- Need to understand the vibratory nature of the Etheric before we can build Resonance Technologies
 - Relationship to sensing, thinking, feeling, and willing
- We need to develop selfless love to drive the moral
- 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



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



Q&A



“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)?



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



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