



SCHEDULE

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 James Knight
- 11:30-12:30 Discussion: Protecting, Countering, 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



VERSE FROM LAST NIGHT'S TALK

- We must **eradicate** from the soul all **fear and terror** of what comes toward us out of the **future**.
- We must acquire **serenity** in all feelings and sensations about the future.
- We must look forward with absolute **equanimity** to all that may come, and we must think only that **whatever comes is given to us by a world direction full of wisdom**.
- This is **what** we have to learn in our times.
- To live out of **pure trust** in the **ever present help of the spiritual world**.
- Surely nothing else will do, if our **courage** is not to fail us.
- Let us properly discipline our **will**, and let us seek the **inner awakening every morning and every evening**.



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

Exploring The Western Path

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6/10/2017



RHYTHMS: ELEMENTS AND ETHERS



RHYTHMS AT BOUNDARIES





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](#)

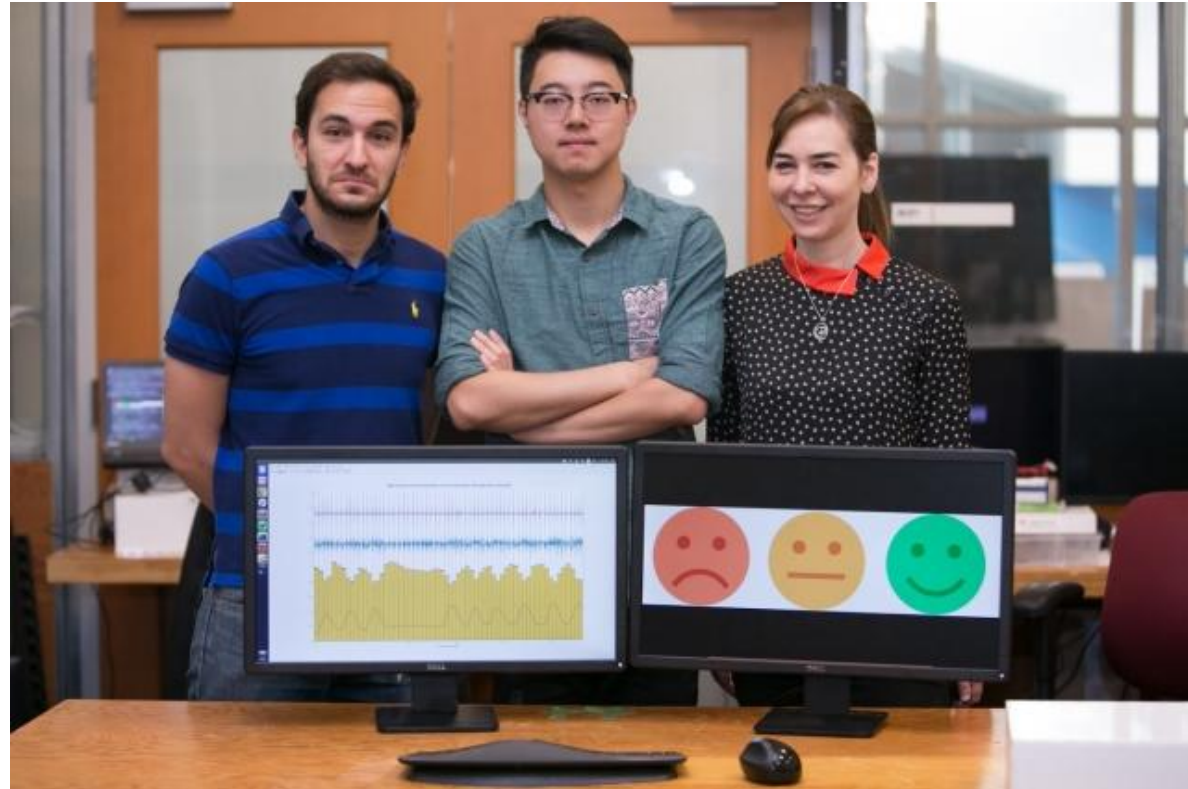
CSAIL device
uses RF waves

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?

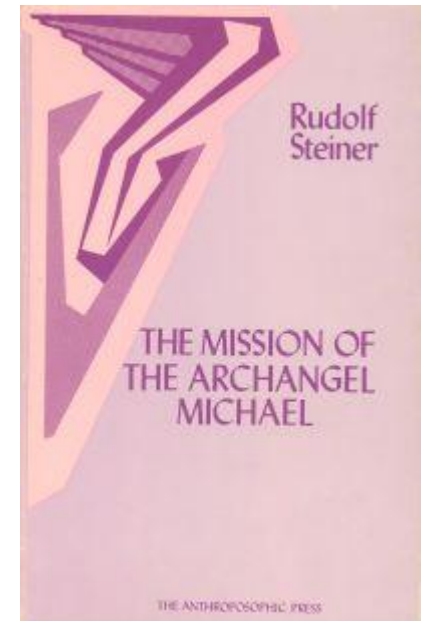
WHAT DO WE BREATHE?



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

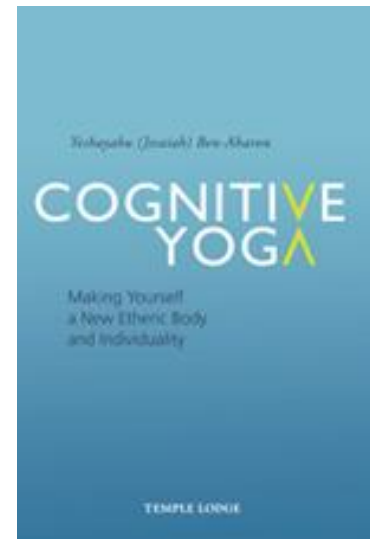
BREATHING AND YOGA

- 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

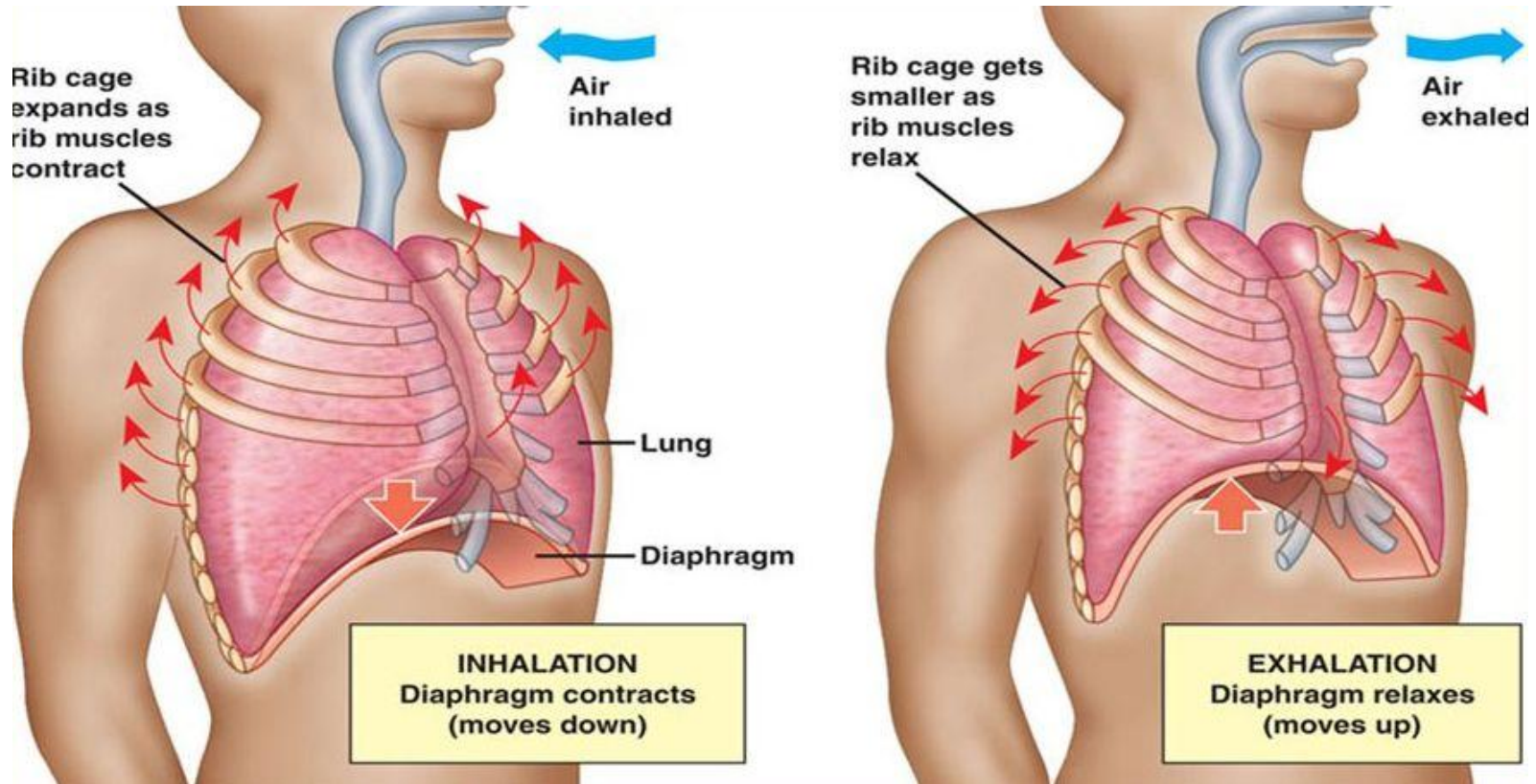
- A person's moral or immoral behavior **can be 'seen' in the steamy breath**
- A man's **moral and immoral nature** in the ordinary sense of the word is **actually visible in the etheric-astral content of the steamy breath**
- Although the physical part of it dissolves, what is incorporated in it does 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 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**



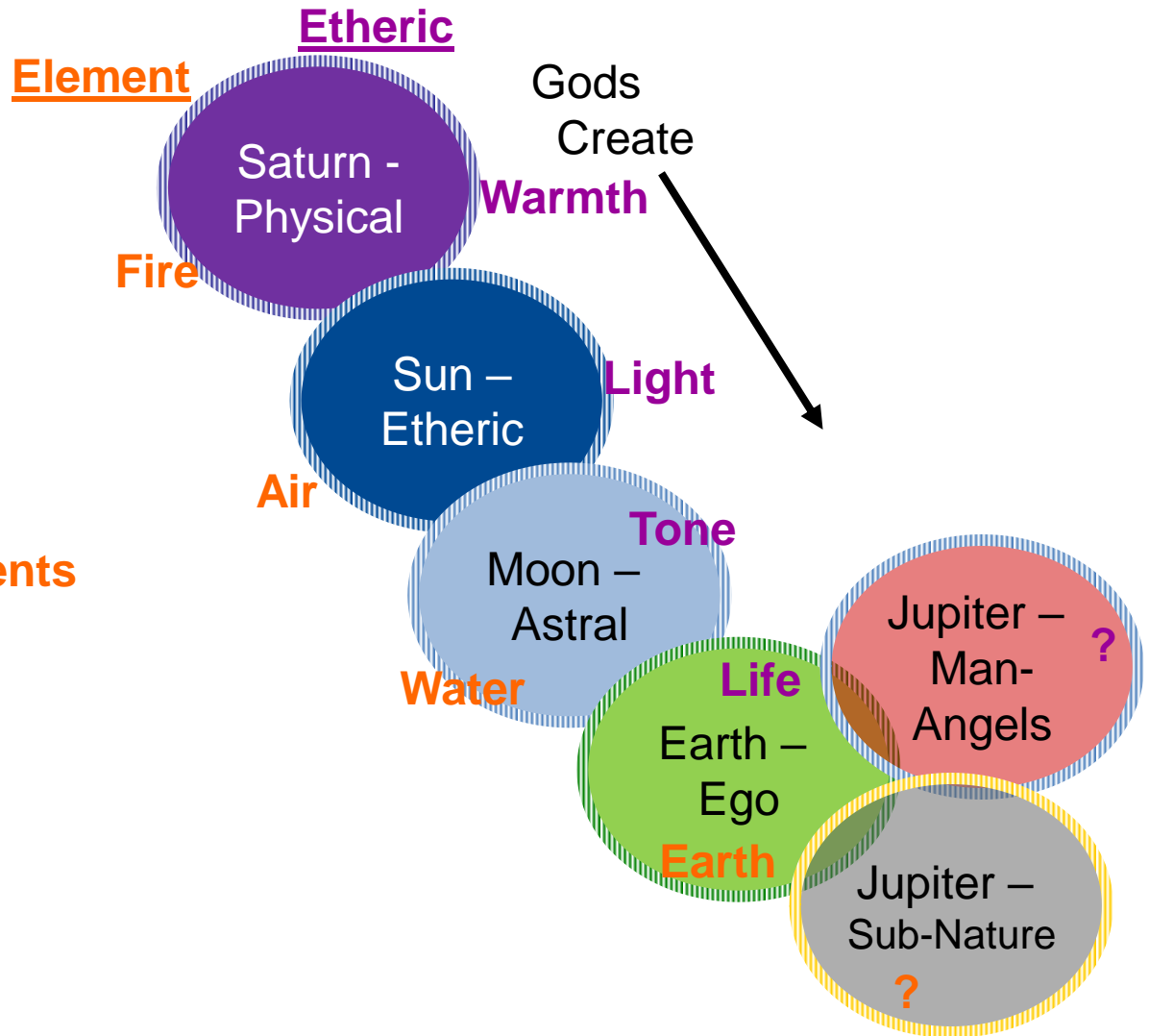
MERGING MACHINES WITH OUR BODIES

- 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

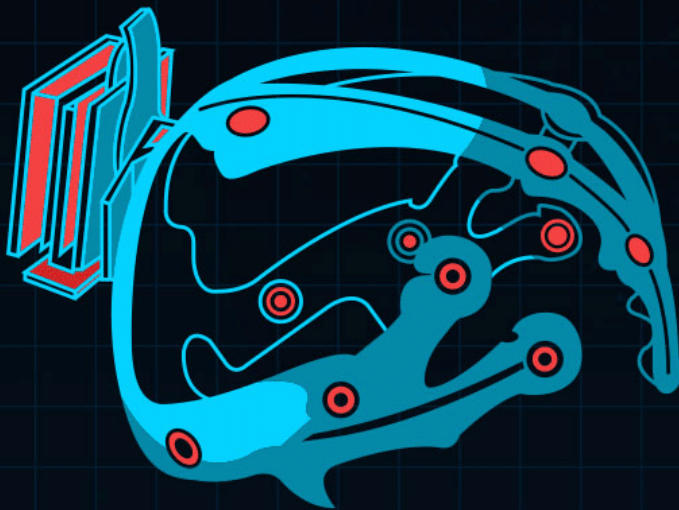
- “We are in fact emerging from the epoch when each of us had, so to speak, his own continuation to himself as to the physical body.
- In the new epoch that is now beginning — brought on by the present leadership of **Michael** — we shall work at the **spirit-seeds of the physical bodies** of men in 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

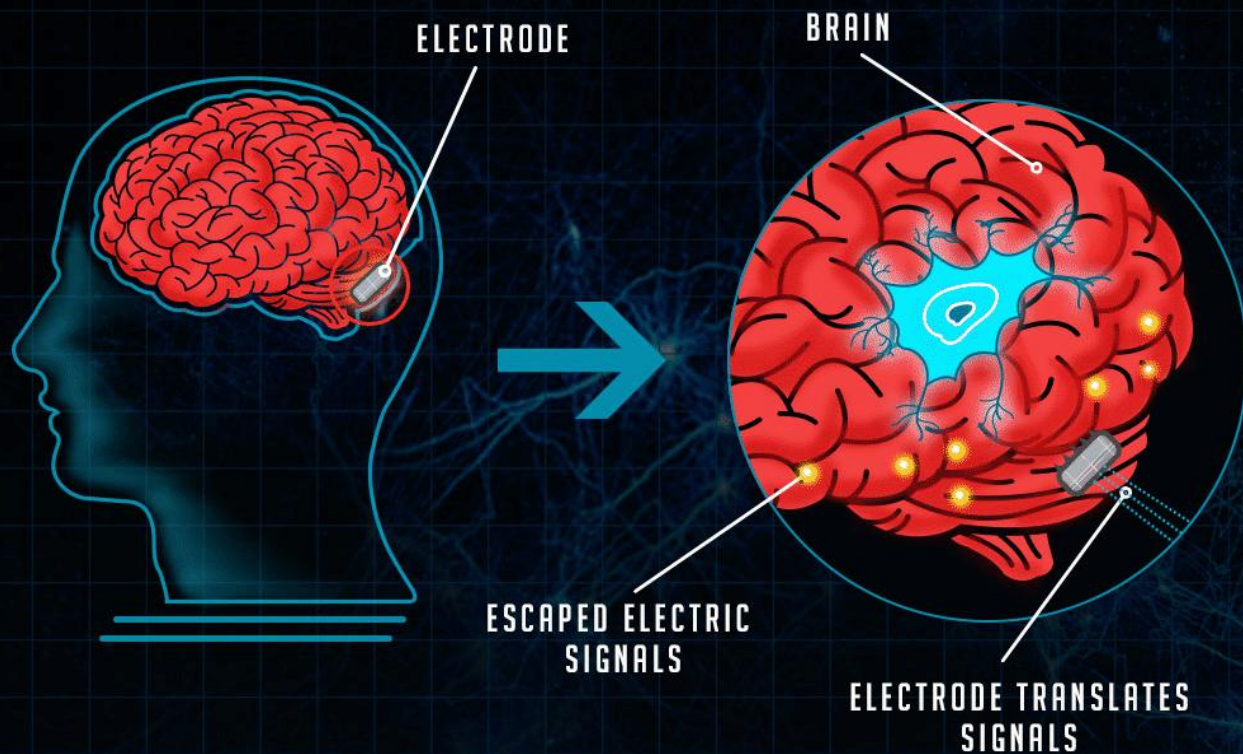
- Uses near-infrared spectroscopy (NIRS) and electroencephalography (EEG) to measure blood oxygenation and vibratory activity in the brain
- After calibration, the patients were able to respond questions with a "yes" or "no" using their 'thoughts'
- Slippery slope



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)

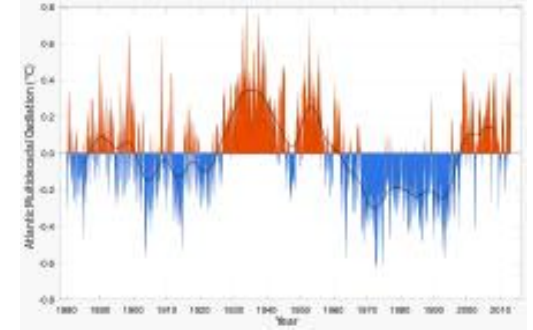
- “Other **brotherhoods**, concerned above all to divert attention from the Mystery of Golgotha, will try to make use of the **duality in human nature** — the duality which in our epoch embraces man as a unity, but includes within him his lower animal nature [sacrifice of Chiron].
- A human being is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

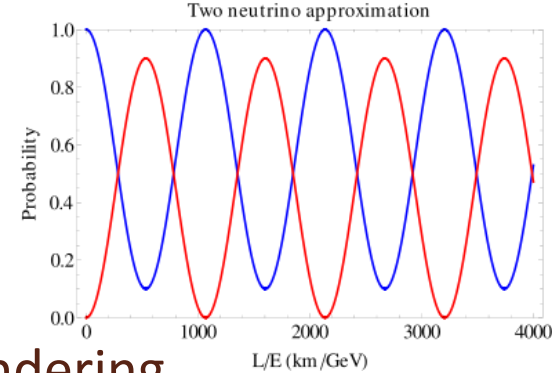
- “It will thus be essential, when these problems emerge, that no improper methods should be applied to them, but **only those elemental forces which belong to nature on their own account**, and great care will have to be taken **not to introduce improper forces** into the realm of machines.”
- -- *The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

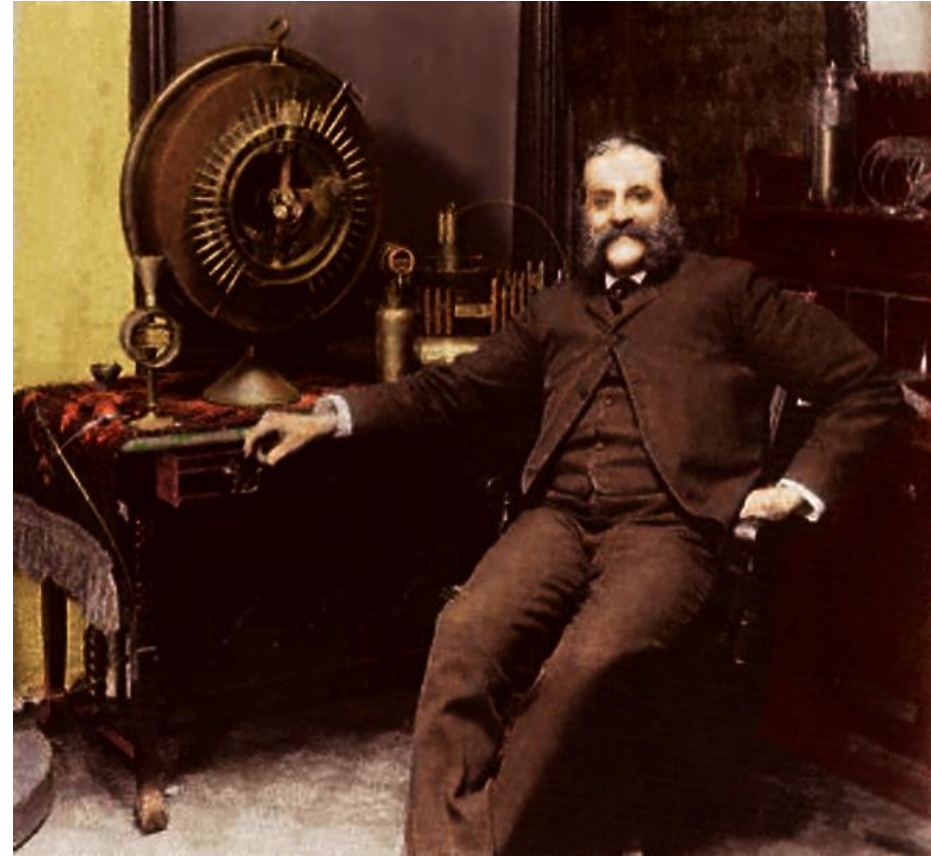
MECHANICAL OCCULTISM



- “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



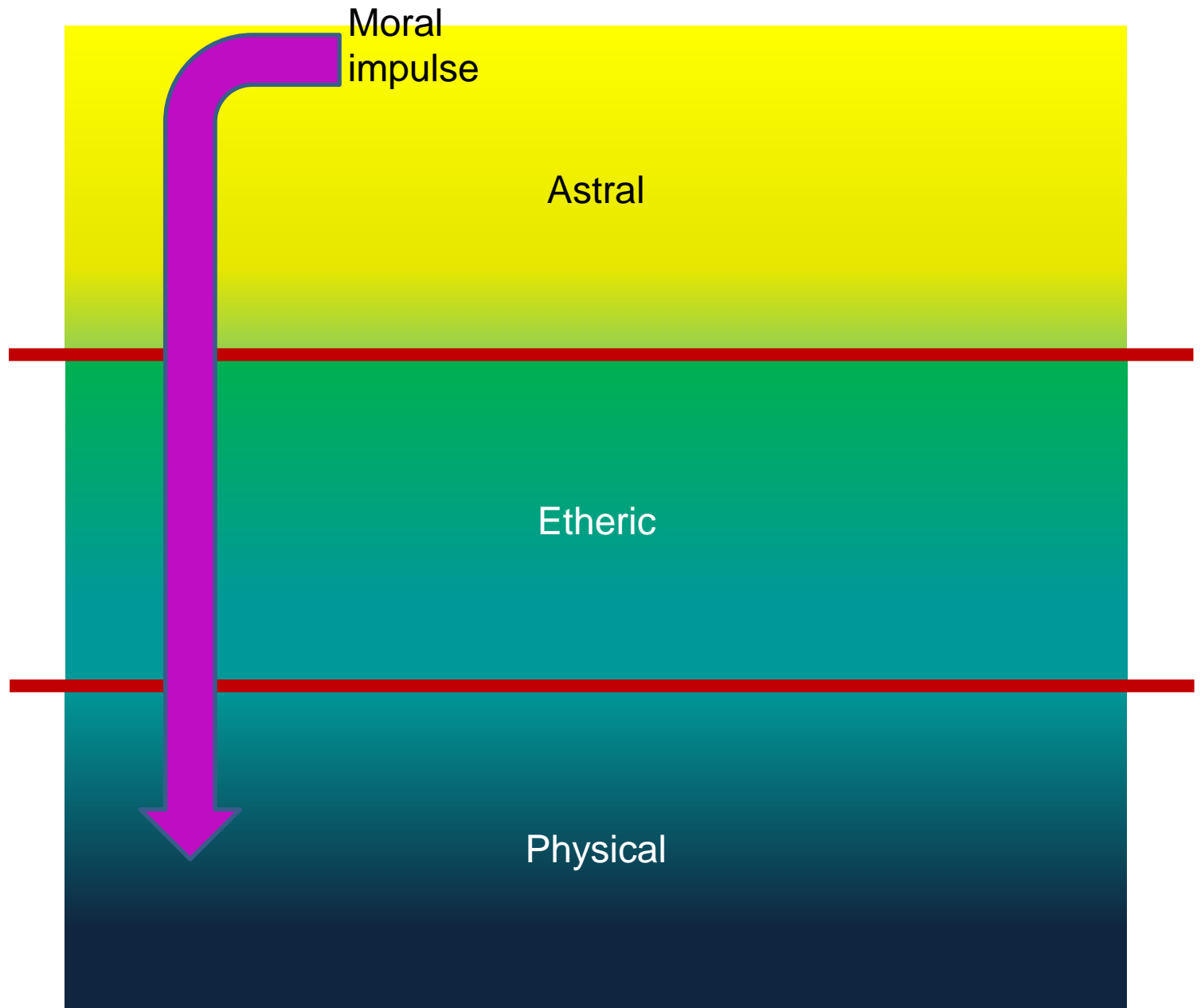
TOWARDS KEELY & STRADER MACHINES

- 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

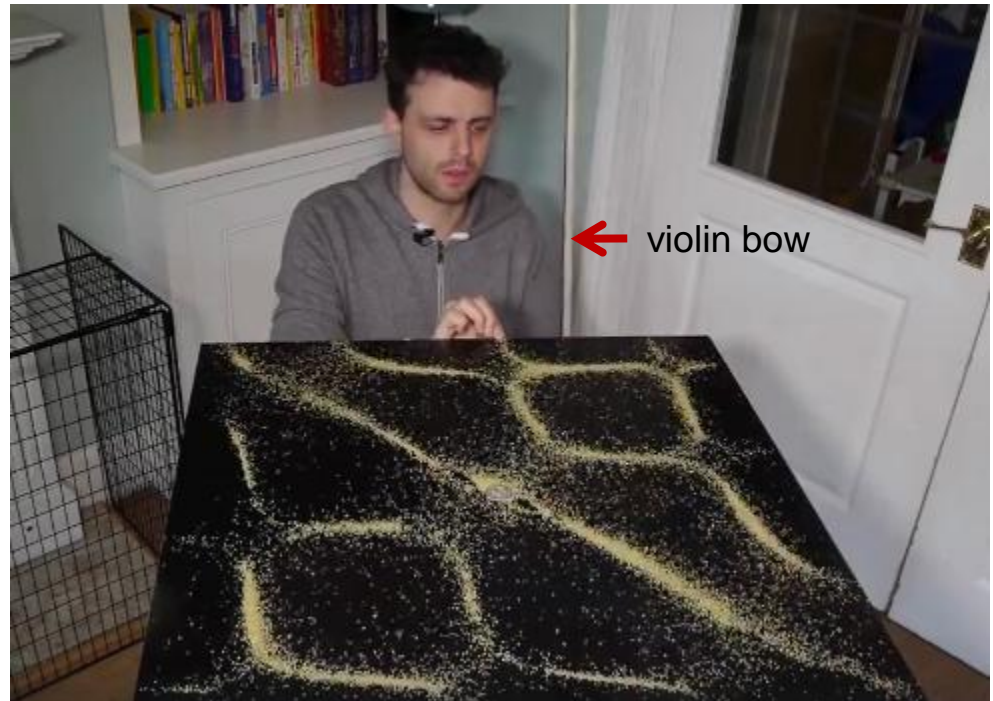
- The telephone and the extension of the soul over space
 - Re-soul print , articles stored on the internet, recordings
- The automobile and extension of touch sensation
 - This experience will vanish soon – self driving cars
 - What does it mean when one gets a “feel” for their car?
- Can our soul operate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

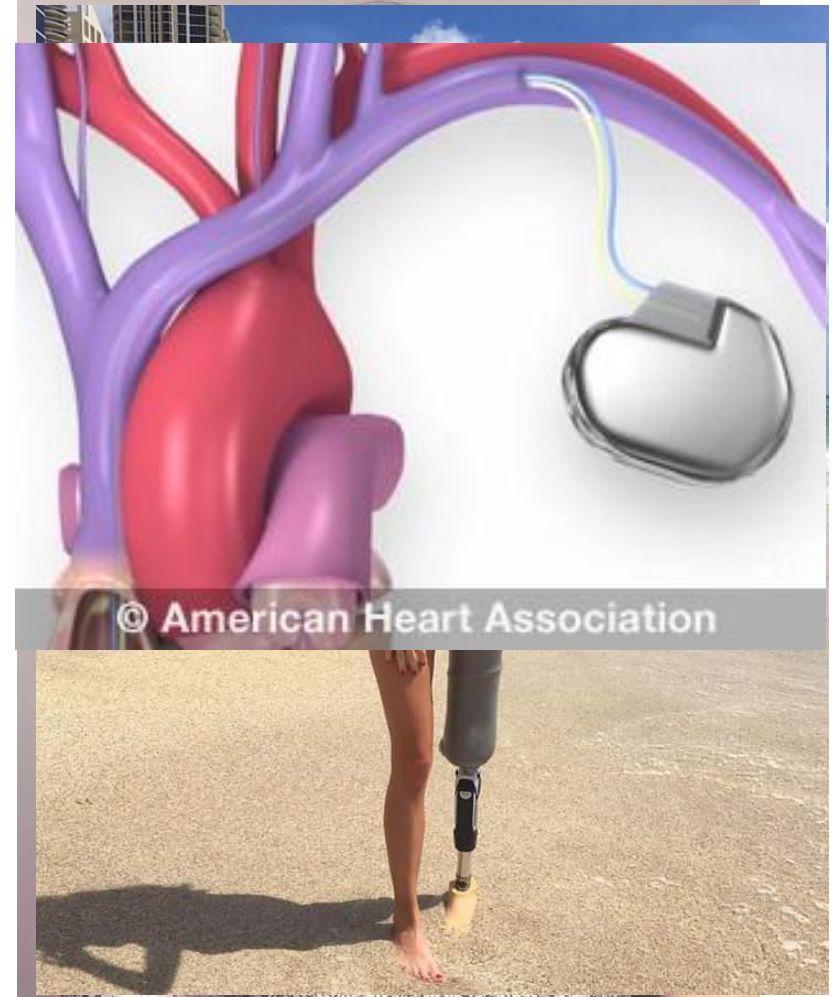
CHANGING THE PHYSICAL BODY

- “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**



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?



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

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 James Knight**
- 11:30-12:30 Discussion: Protecting, Countering, 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



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



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Discussion

PROTECTING, COUNTERING, CONFRONTING

COMING PREPARED FOR MODERN LIFE





CELL PHONE SAFETY

- No Children Allowed: Cocaine for Kids
 - <https://www.facebook.com/HealthForAllKids/videos/301316260295203/>
- 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

Intensity $\sim 1/\text{distance}^2$
- 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



EMR SOURCES

- Wireless (Wi-Fi) networks
- Cell Phones
- Bluetooth devices
- Power lines
- Computers and printers
- Smart meters
- Microwave ovens
- MRIs

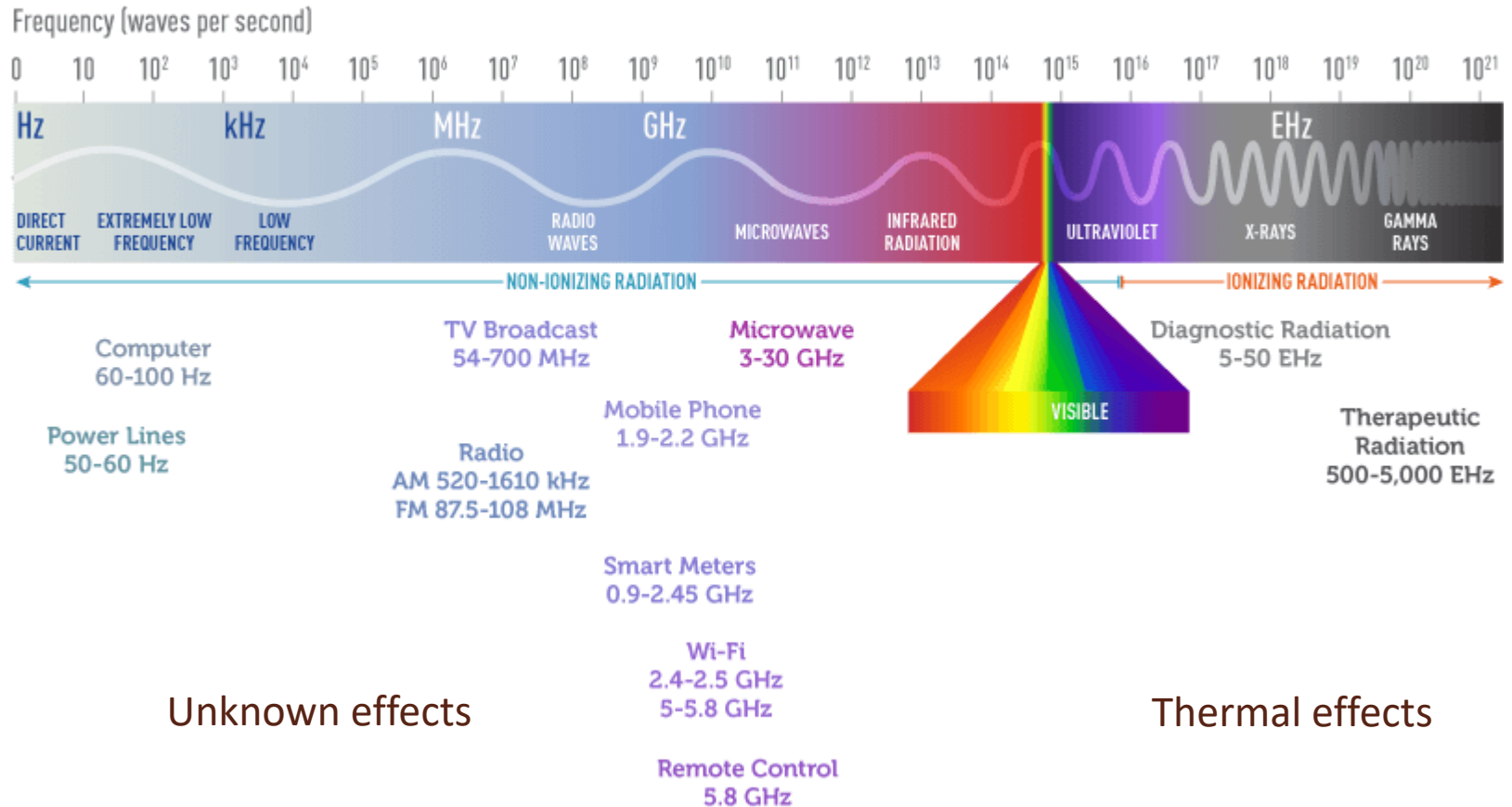
Protections

- Time of exposure
- Distance from source
- Shielding

TYPES

- **ELF: Extremely low frequencies**
 - Time-varying electromagnetic fields e.g. produced by electrical appliances
 - Frequencies up to 300 Hz
 - Electricity power supply (60 or 50 Hz)
- **IF: Intermediate Frequencies**
 - 300 Hz to 10 MHz
 - Computer screens, anti-theft devices and security systems
- **RF: Radio frequencies**
 - 10 MHz to 300 GHz
 - Radio, television, radar, cell & cordless phones, microwaves

ELECTROMAGNETIC SPECTRUM



Steiner indicated that this EMR linear spectrum is invalid.



ELECTROMAGNETIC HYPERSENSITIVITY

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>



POSSIBLE ISSUES

- Rarely immediate health issue (other than headache)
 - 2016: Risk of Glioma (tumor in “gluey” tissue of the brain)
- Neurological (NDD) – contributor to dementia
 - Dr. Nora D. Volkow, National Institute on Drug Abuse: “changes in brain glucose metabolism after cell phone use”
- Cancer (especially breast)
 - 2011: WHO listed cell phone radiation as a 2B carcinogen
- Immune system & blood-filters (toxins pass through ‘holes’)
- References
 - <https://draxe.com/electromagnetic-radiation/>
 - <http://www.trueactivist.com/10-ways-to-protect-against-emf-emissions/>
 - <https://www.globalhealingcenter.com/natural-health/protect-your-house-emf-pollution/>
 - <http://articles.mercola.com/sites/articles/archive/2009/08/25/simple-inexpensive-solution-to-radically-lower-emf-exposure.aspx>

REMEDIES



- Generational differences
- EMR-“free” zones in your home
 - Children’s bedroom (no wireless monitors)
 - Ethernet cables or turn off Wi-Fi at night
- Where you carry it (mobile phone)
 - High EMR while talking – use speakerphone
 - Don’t sleep with your phone or carry close to body
- 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, ...
 - Diet: High Oxygen Radical Absorbance Capacity (ORAC) foods

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, 10K steps per day
 - Move, get tea
 - Barefoot on the earth
4. Shut down at night
 - And at dinner, make it engaging
5. Annual blood tests



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THE IMPORTANCE OF PHYSICAL BODY

- 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



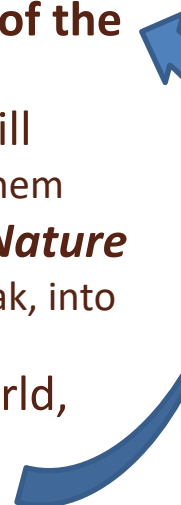
Extra Material

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

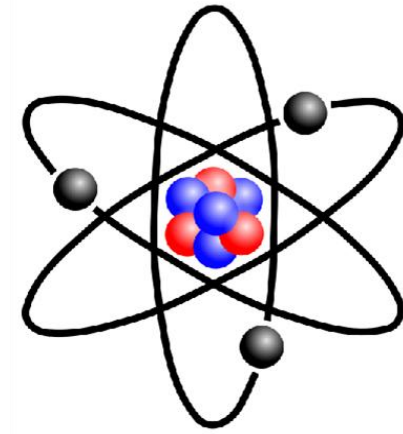
- “Complete opposites” – what does this mean?
- Light related to levity
 - Why do some need sunglasses? Why does light cause headaches?
- Light as opposite of weight/gravity
 - Balance and rhythms of light-dark
- Where are these within the human?
 - Blood and nerves
 - Life and death
 - When does thinking 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 ANTITHESES

- 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



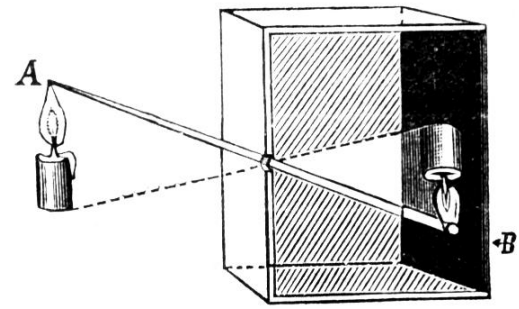
- The atom is nothing but coagulated electricity
 - Thought itself is composed of the same substance
- **Before** the end of the 5th PACA, science will have reached the stage where man will be able to **penetrate into the atom itself**
- When the **similarity of substance between the thought and the 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, 28May1922, GA 212

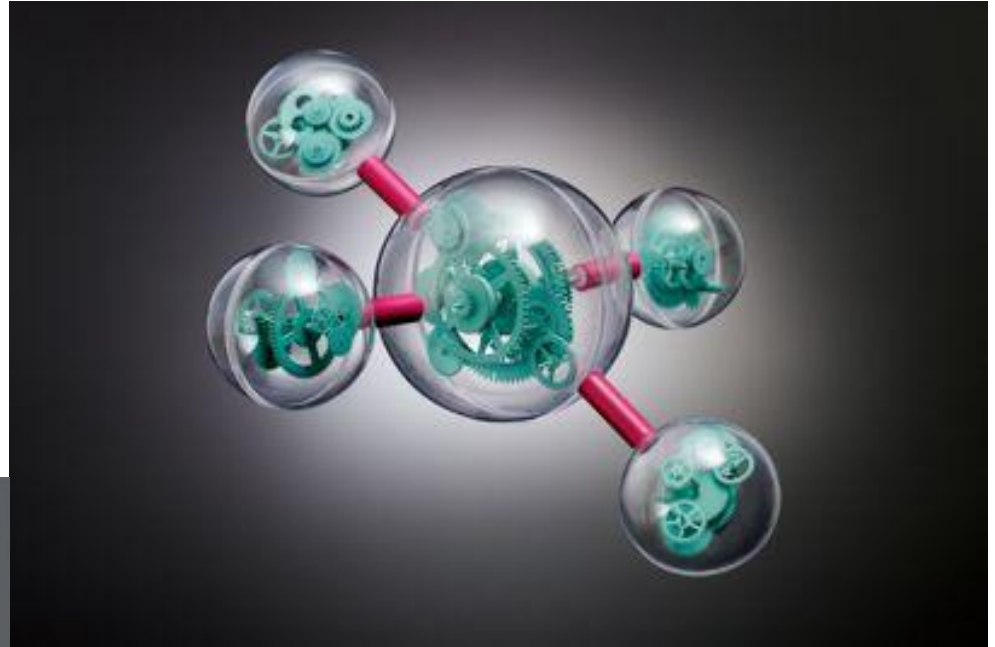
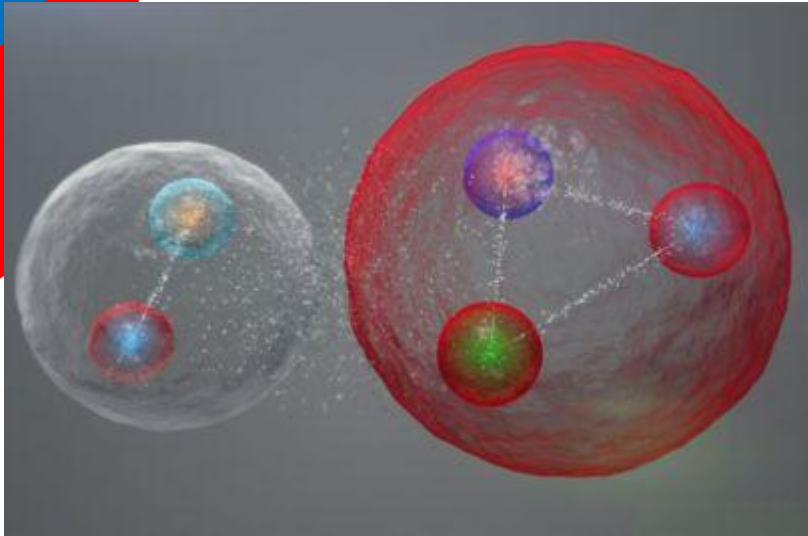


CONCERNING ELECTRICITY

- “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**



- When we electrify matter, Nature is **conceived** as something **evil**

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 **4th PACA** this problem of **birth and death** was more connected with the human soul, but during our own epoch, the **5th 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 5th 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

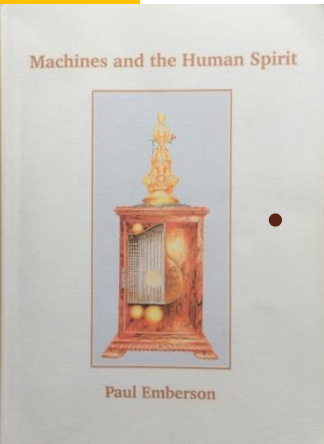


MODERN TECHNOLOGY & ROLE OF EVIL

- “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 5th 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





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, ...



MORE BACKUP MATERIAL



ELECTRO-MAGNETIC RADIATION

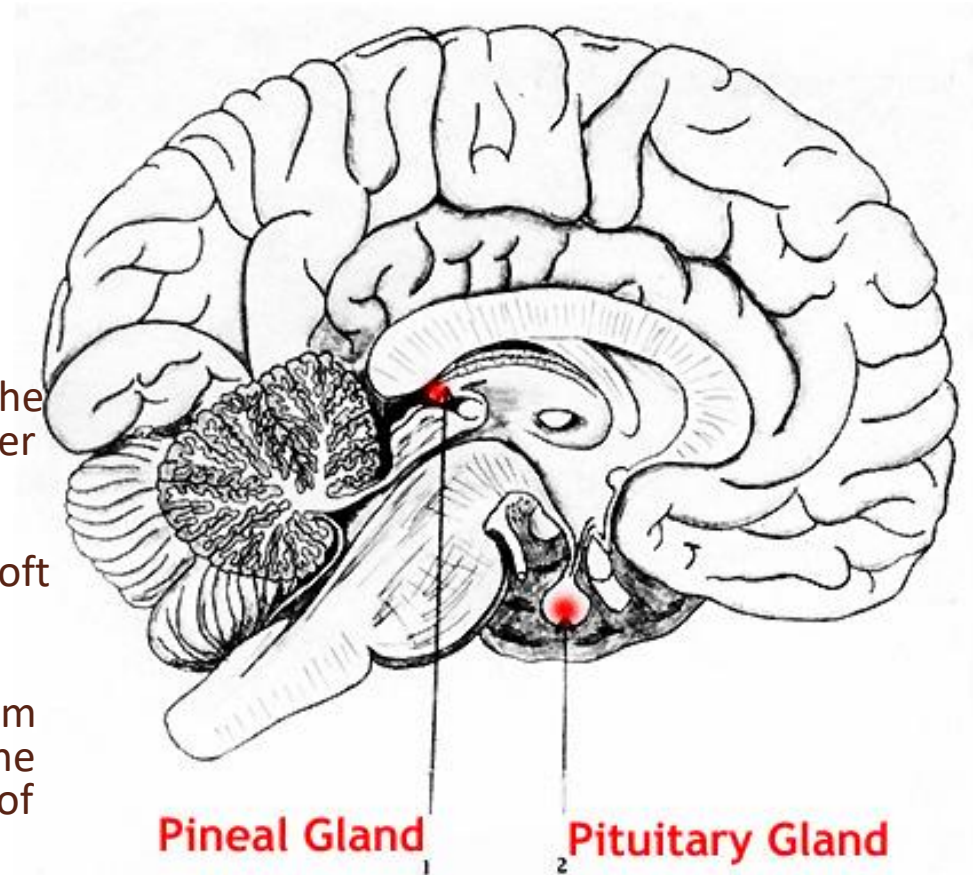


SENSITIVITY FOR ELECTRO-MAGNETISM

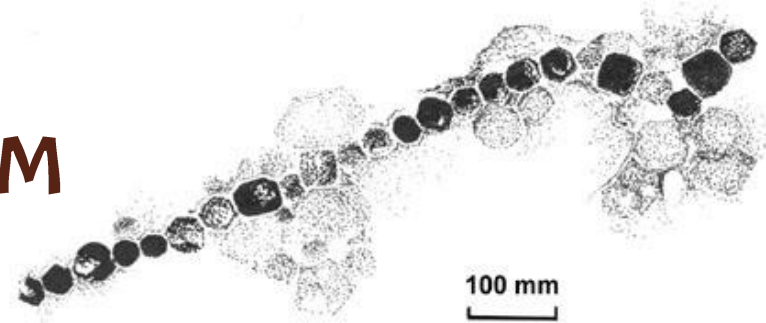
- Magnetic field of human beings and of higher animals interact closely with earth's magnetic field
 - According to **Rob Baker** the *human magnetic organ* is situated in the bones of the sphenoid/ethmoid sinus, directly in front of the *pituitary gland*
 - This organ 'feels' the earth-magnetic north 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



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 (Fe_3O_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

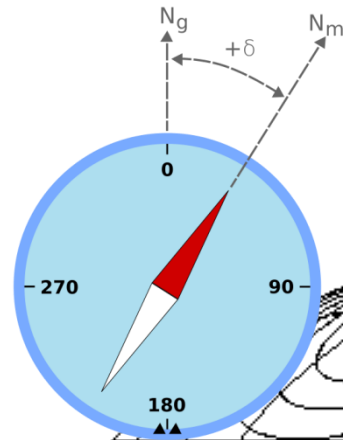
- Piezoelectricity (aka the piezoelectric effect) occurs within certain materials – crystals (notably quartz), some ceramics, **bone, DNA, and a number of proteins** – when the application of mechanical stress or **vibration** generates electric charge or alternating current (AC) voltage, respectively
- (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

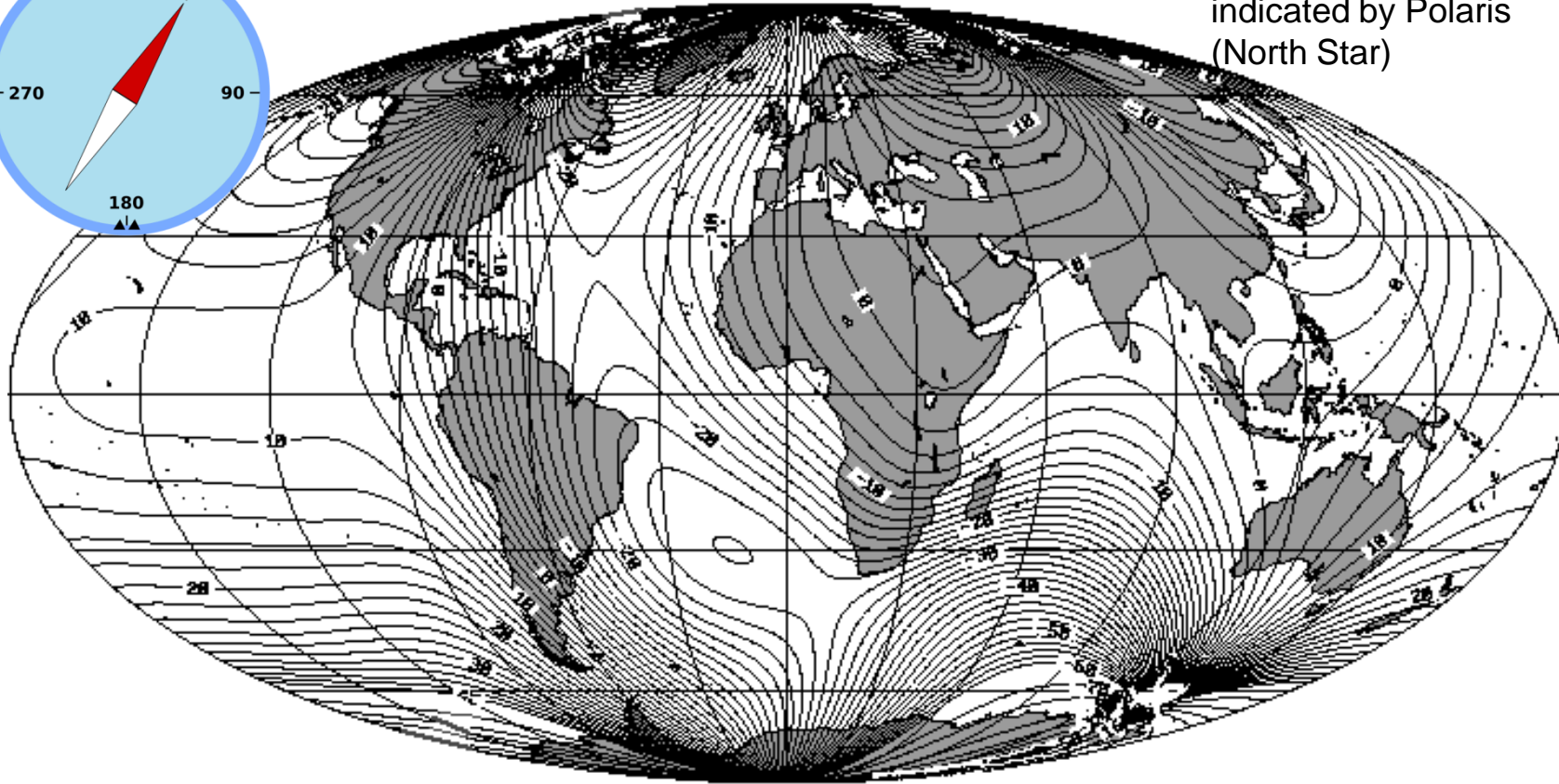
- “Those concerned to present an Anti-Christ as the real Christ will try also to make use of something that works through the most material forces, but in this very way can work spiritually. Above all they will strive to make use of electricity and earth-magnetism in order to produce effects all over 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, 25Nov1917, Dornach, GA 178

TRUE NORTH AND MAGNETIC NORTH

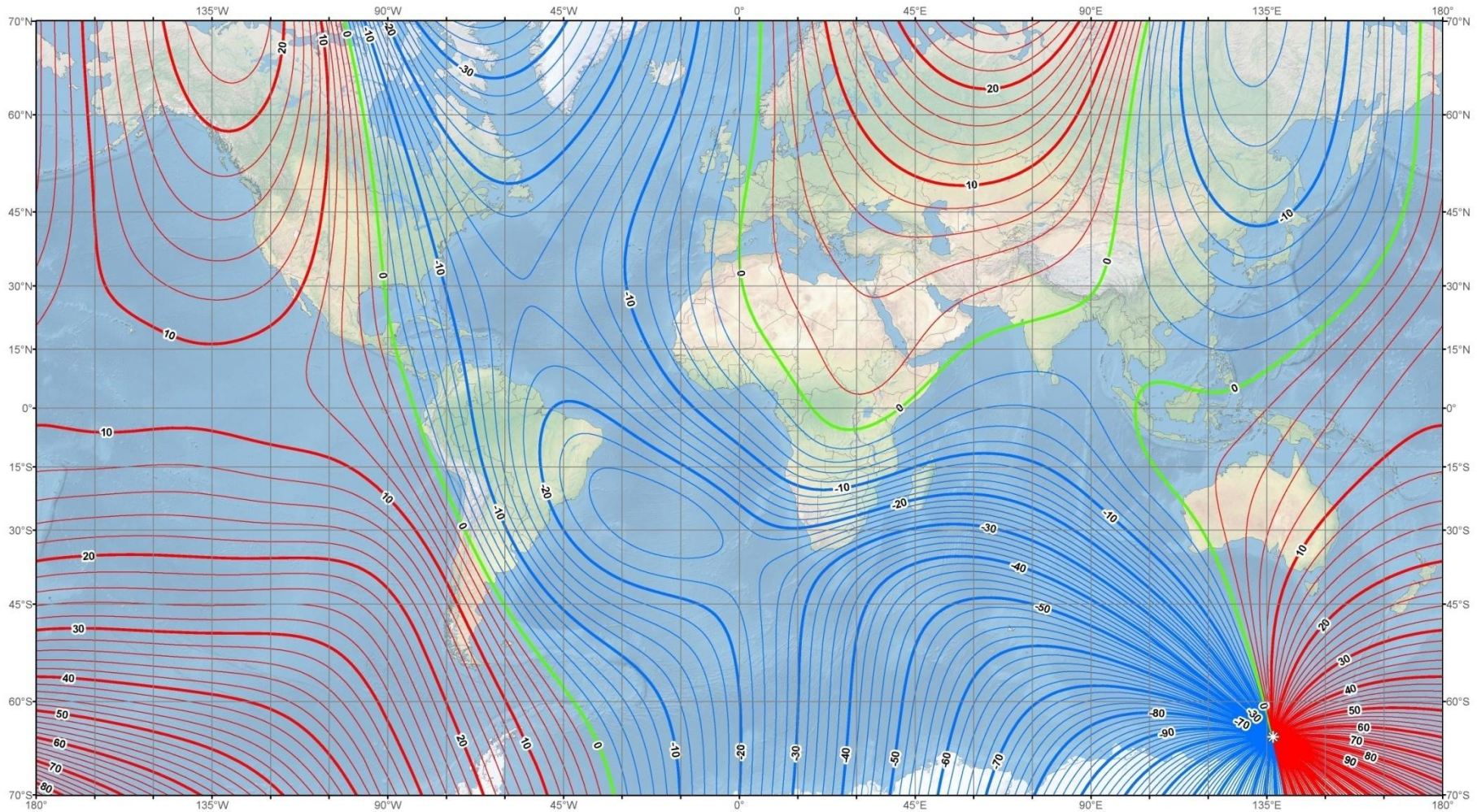


**Magnetic Field of the Earth - 1995
Declination Chart**

North celestial pole is indicated by Polaris (North Star)



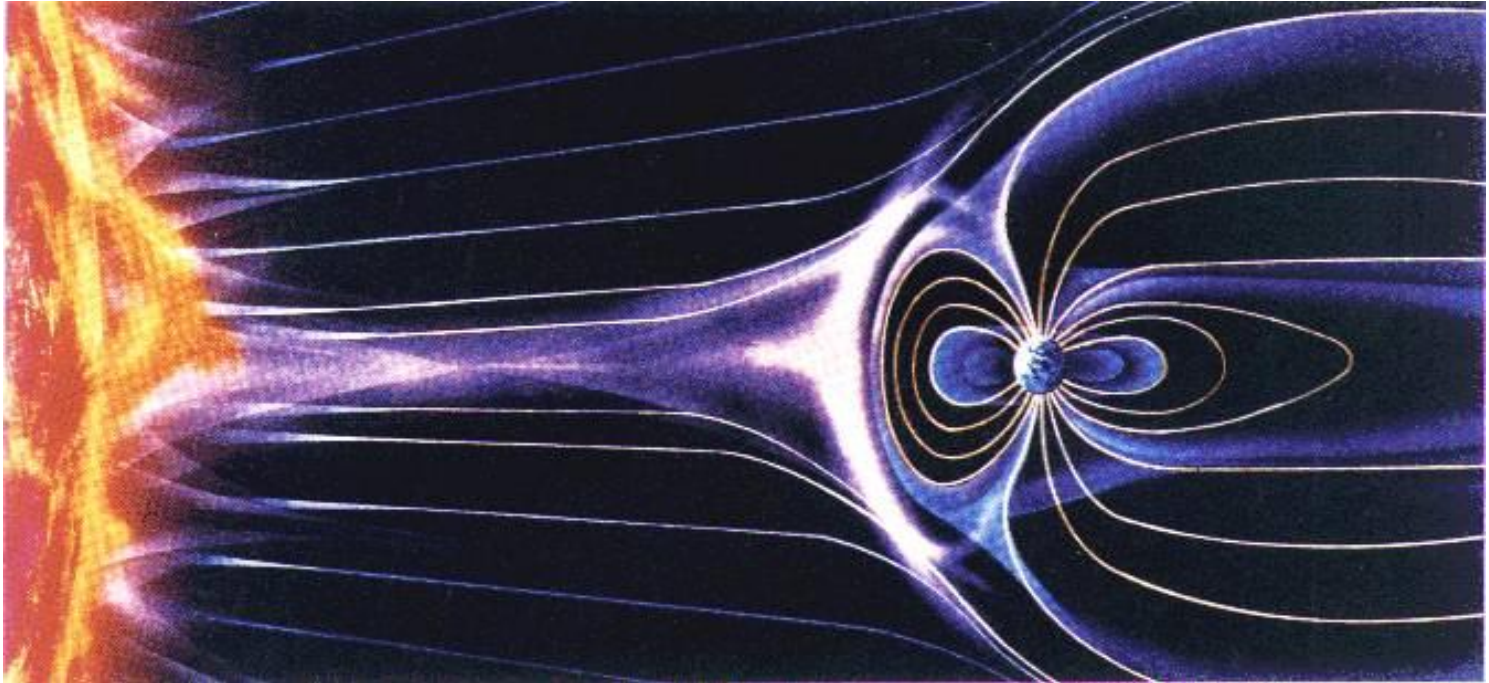
TRUE NORTH AND MAGNETIC NORTH



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
- Protecting the Earth's atmosphere, [How Mars Lost It](#)
- Observing 'reconnection' [explosions](#)



GRASPING THE ROLE OF EVIL

I suspect that nowhere else in the world could humanity face the incarnation of Ahriman any better than in America. She offers herself in this sacrifice of her noble beauty with grace and strength. – Linnell

“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*, 26Oct1918, 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, poneros = 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



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



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



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.

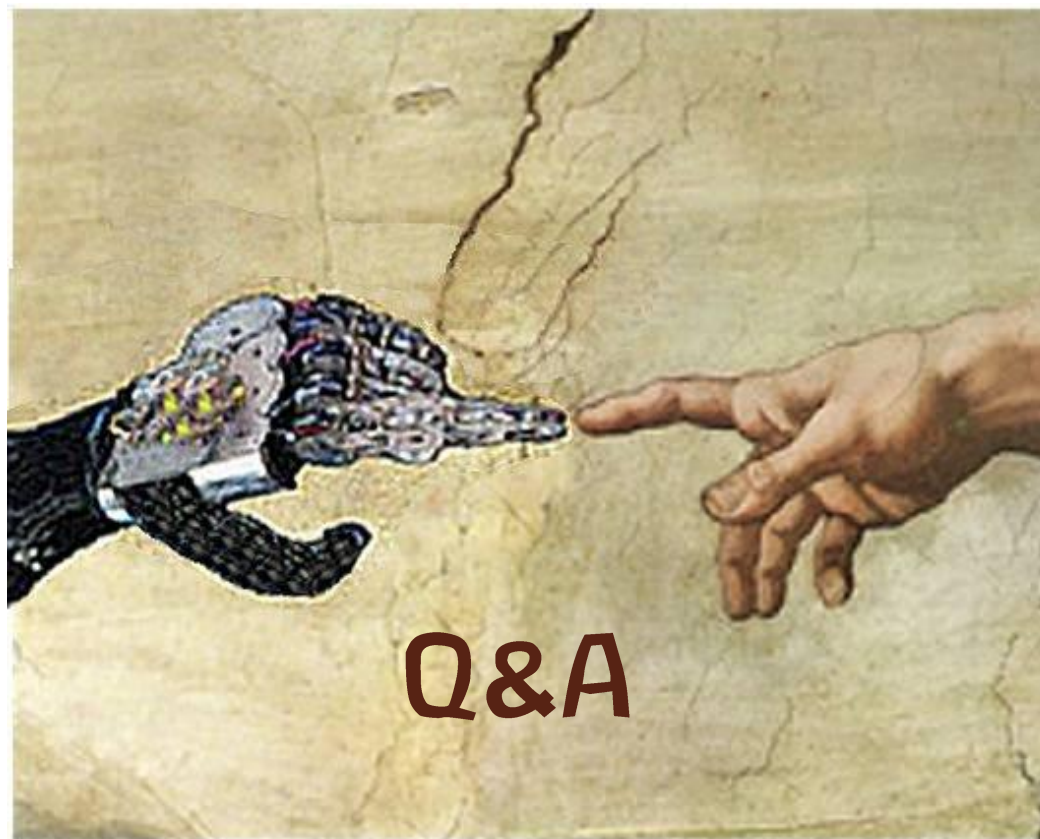
But in the deepening silence
There grows and ripens
What Man speaks to the Stars.
To be aware of the speaking
Can become strength for Spirit-Man.

Rudolf Steiner

spirit

soul

life



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)?



SCHEDULE

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 James Knight**
- 11:30-12:30 Discussion: Protecting, Countering, 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