spirit

soul

life

Exploring the Future Mysteries of Technology

Cultivating a Moral Technology

Andrew Linnell
jandrewlinnell@yahoo.com
www.mystech.co

Schedule

www.mystech.co

October 27, 2017 Lecture

- 19:30 – 21:00 Rudolf Steiner's Surprising View of the Future

October 28, 2017 Workshop

- 09:05-09:30 Registration, social time, tea/coffee
- 09:30-10:30 **Merging Through Rhythms and Ethers**
- 10:30-10:45 Break
- 10:45-12:30 Structured Discussion: The Challenge of Our Times

VERSE

- *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

Background to Etheric Technology

- "They [Atlanteans] constructed airships which were not propelled by inorganic forces but by use of organic, **germinating power** of plants."
  - Atlanteans had no combinative intellect; they could not count
  - They had particularly well-developed memories"
- Atlantean Race relationship to its etheric body
  - "At that time he was still able to control the **living seed-forces** of the plants.
  - By means of the **Prana (life-force)** of plants he propelled the **airships** in Atlantis described by Scott-Elliott [air, water, and earth were different then].
  - This shows us that in that epoch man had greater power over his etheric body than he has today."
  - R.S., *At the Gates of Spiritual Science*, lecture 10, 31Aug1906, Stuttgart, GA 95

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

America: Where Mechanical Occultism Belongs

- *The Challenge of the Times*, lecture 3
  - Develop Mechanical Occultism in the West, in America
- Is America weak or bad to be where Ahriman incarnates
- (Like Frodo) She volunteered for this mission/destiny
- Her history is preparation for this task
  - Who were the indigenous peoples – where did they come from
  - Mexican Mysteries – black magic, human sacrifice
  - Land of Immigrants
  - Learning by our mistakes, our evils
- Dealing with the magnetic forces & Ahrimanic Double

Technology's Role in Evolution

- Greek mythology, Egyptian mummification
- Formidable Foe: Fear helps Ahriman
  - We must eradicate all fear of what comes to us out of the future …
- Final Letter to Members: SuperNature and SubNature
  - Sinking into the Abyss? Balance?
- Keely and Strader Machines
  - Paul Emberson: Moral Technology

Call to Action

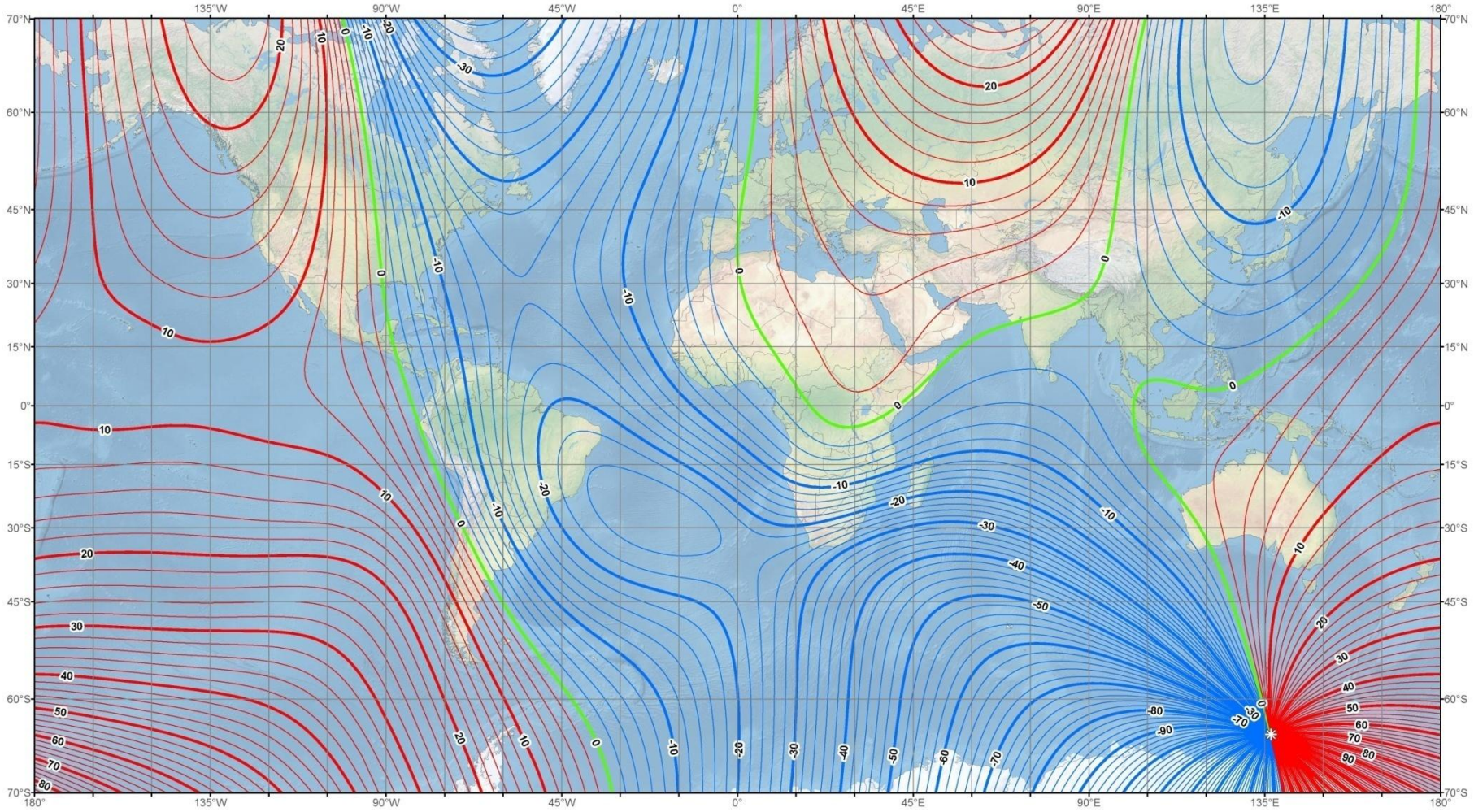
- “the will is there to harness human energy to mechanical energy. These things should **not** be treated by **fighting against them**. That is a completely false view. These things will not fail to appear; they will come.
- What we are concerned with is whether, in the course of world history, they 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 beings or whether they are enacted by groups of human beings who **exploit** these things in an **egotistical** or in a group-egotistical sense. That is what matters.
- It is not a question of the what in this case; the **what** is sure to come. It is a question of the **how**, how one tackles these situations. **The what lies simply in the meaning of earthly evolution**.
- The **welding together** of the human nature with the mechanical nature will be a problem of great significance for the remainder of earthly evolution."
- *-- Individual Spirit Beings and the Undivided Foundation of the World: Part 3 (Reappearance of Christ in the Etheric)*
- ***Summary: What=iron necessity, the How and by Whom = Freedom***

The Formation of MysTech

- Lectures on Technology, began 2005: MysTech.co
- Center for Anthroposophical Endeavors
  - Dolores Rose Dauenhauer, now son Frank
- Online Study Groups (2 generations) 35 total
  - 16 active members (1. 21 members, 2. 14 members)
  - From Europe to Philippines (time zones)
- FB group: Anthroposophy and Mechanical Occultism
- Founding of MysTech: June 12, 2017, 10 members
  - Devoted to cultivating moral technologies
  - Membership to support R&D
  - Journal (2x per year), website, classes
- Steering Committee looking at an Annual Conference

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

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

Goals of MysTech

- Answer the How and the Who
  - In America. In Seattle.
  - Realize a true and inwardly moral way forward for humanity's future with technology
- Help steer industry R&D towards this future technology
  1. Interface that will filter according to moral impulse
  2. Machines driven by harmonic resonance emanating from human beings (moral technology, Keely)
- Work to overcome the rising fear of Ahriman
  - Develop ourselves for a healthy confrontation

Technology and Anthroposophy

- What section should be dealing with the Q of Tech?
  - Holland: all sections joined together
  - America: Natural Science Section
  - BTW: annual conference Nov 9-12, RSH, Ann Arbor, Astronomy
  - General Section?
- Outcome of the Culmination: much more interest
  - Stephen Usher
  - Once lonely, felt despised (spy for Ahriman)

Merging Man and Machine

- **"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**
  - Rudolf Steiner, *The Reappearance of Christ in the Etheric*, lecture 12

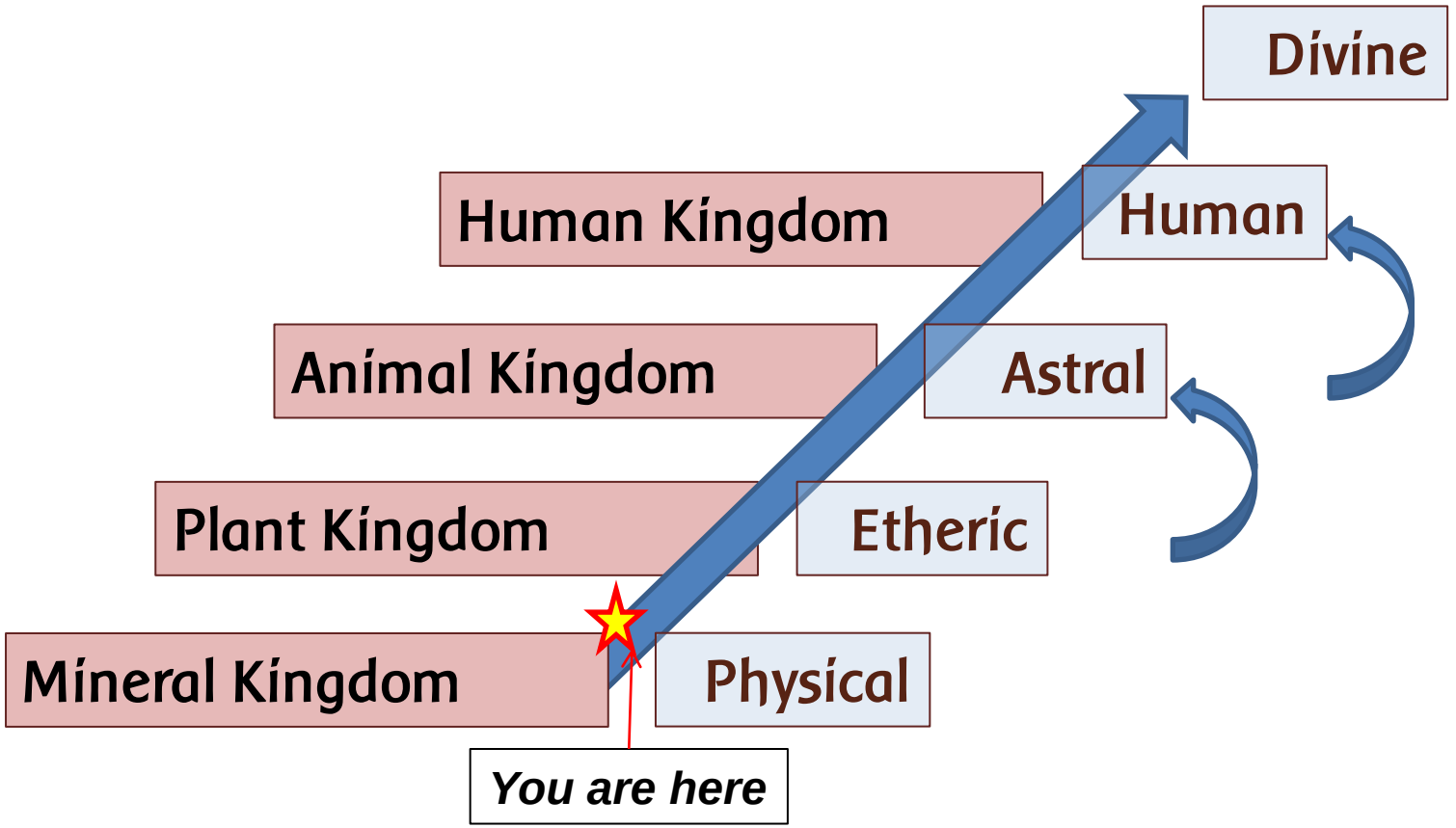
Steiner on Facing Human-Mechanical

- 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

Humanity's Lowest Principle

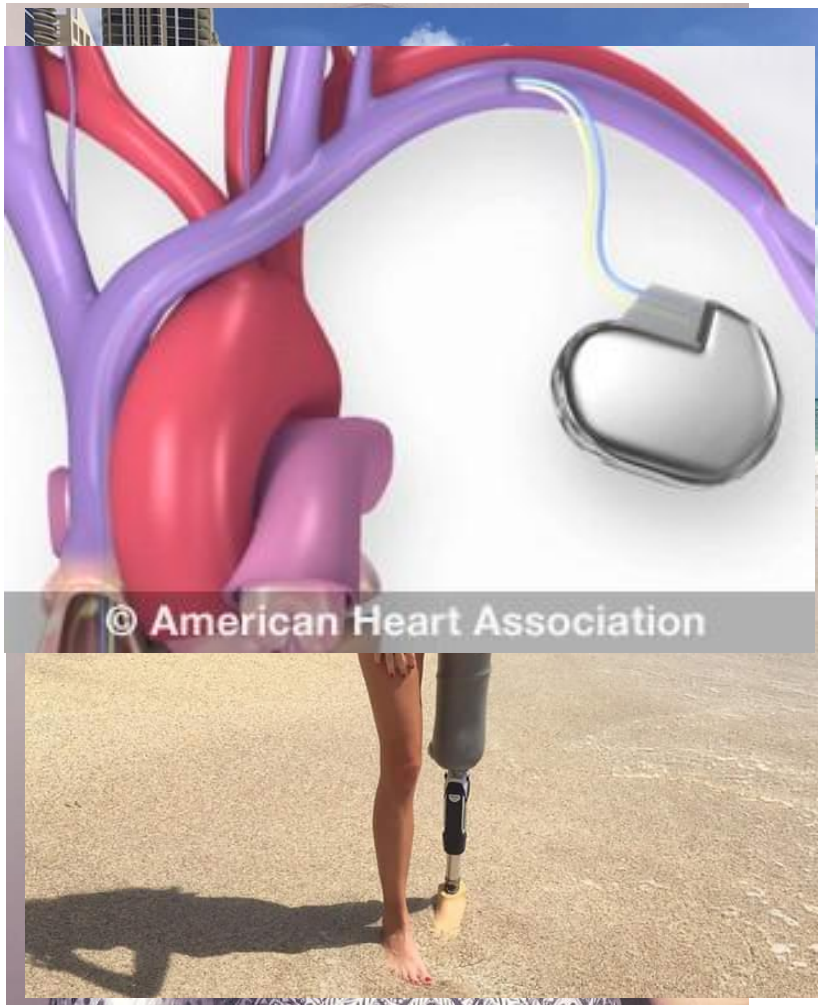


Changing the Physical Body

- "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**

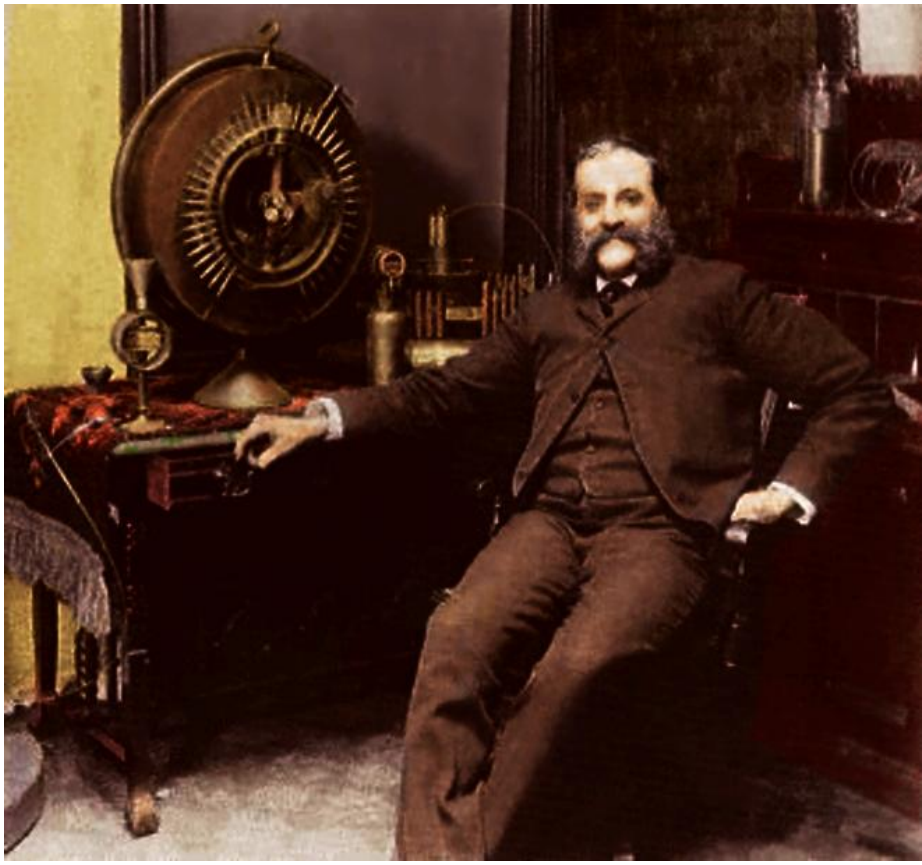
What Can We Fall In Love With?

- 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?



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

Emanations from the Hands

- "To a **clairvoyant** the **hands** of a man are **remarkably different** in a particular respect from all his other bodily members.
- **Luminous projections of the etheric body** stream out from the fingers, sometimes glimmering faintly, sometimes flashing far into the surrounding space.
- The **radiations from the fingers** vary according to whether the man is happy or troubled and there is also a difference between the back of the hands and the palm.
- For anyone able to observe clairvoyantly, a hand, with its etheric and astral parts, is a most wonderful structure. "
- *Background to the Gospel of St. Mark*, Lecture 7, 28Feb 1911, Berlin, GA 124

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

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WHAT ARE THESE HARMONIC OSCILLATIONS?

And where will they be applied?

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

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

Is this the Right Time?

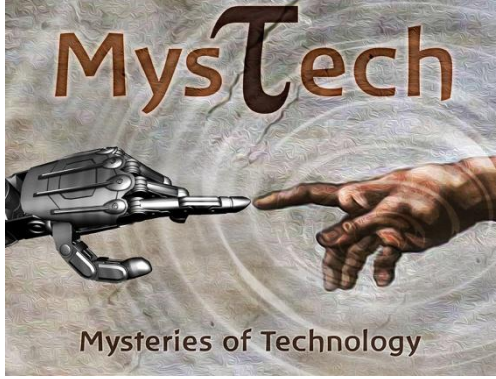
- [Paul Eugen] Schiller Files
- After Dr. Pfeiffer had been told by Steiner that "…the time was not yet ripe for the etheric forces to become operative [in humanity]", Dr. Pfeiffer asked: "When would that time come?"
- Steiner replies: "When the threefold social order and Waldorf School education are realized and humanity had another moral constitution." (Folio 4 a-c, pg. 11)
- Are we there yet?

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: devoted to cultivating moral technologies
  - Founding meeting June 12, 2017, 10 founding members
- Membership to support R&D
  - **Moral interface to machines**
  - **Cultivation**: Journal, website, classes

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

Steps to Moral Technology

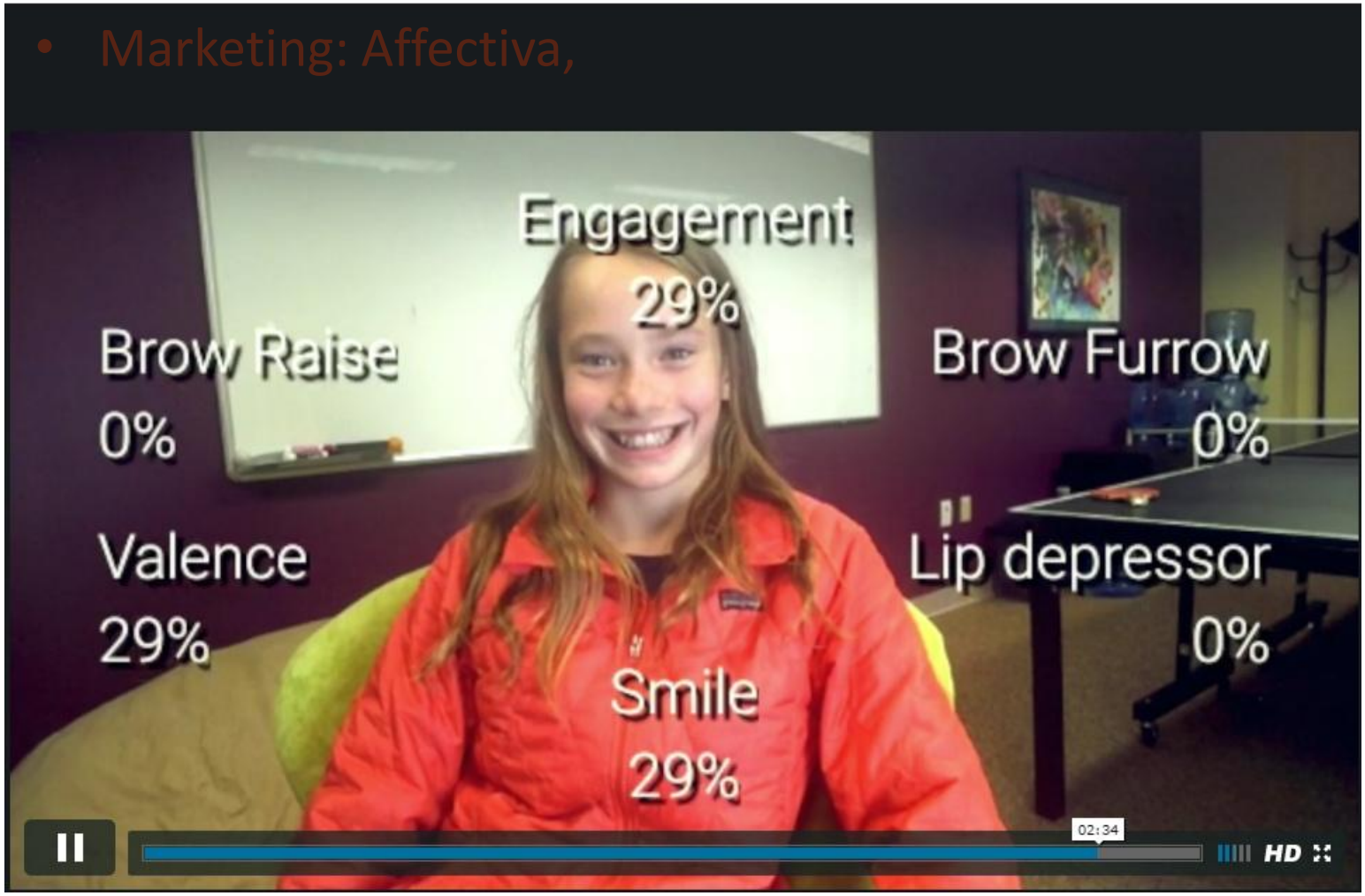


- Immediate future:
  - Machine will only work when it detects a good moral impulse
  - **Interface** to detect moral impulse
  - Detecting a moral impulse
    - Etheric vibrations from Astral/Ego
    - Wave hand (?)
  - Need: wearable robotics
    - No hacking, no passionate mistakes
- Future: vibrations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

Emotion Detection for Marketing

affectiva®

- Marketing: Affectiva,



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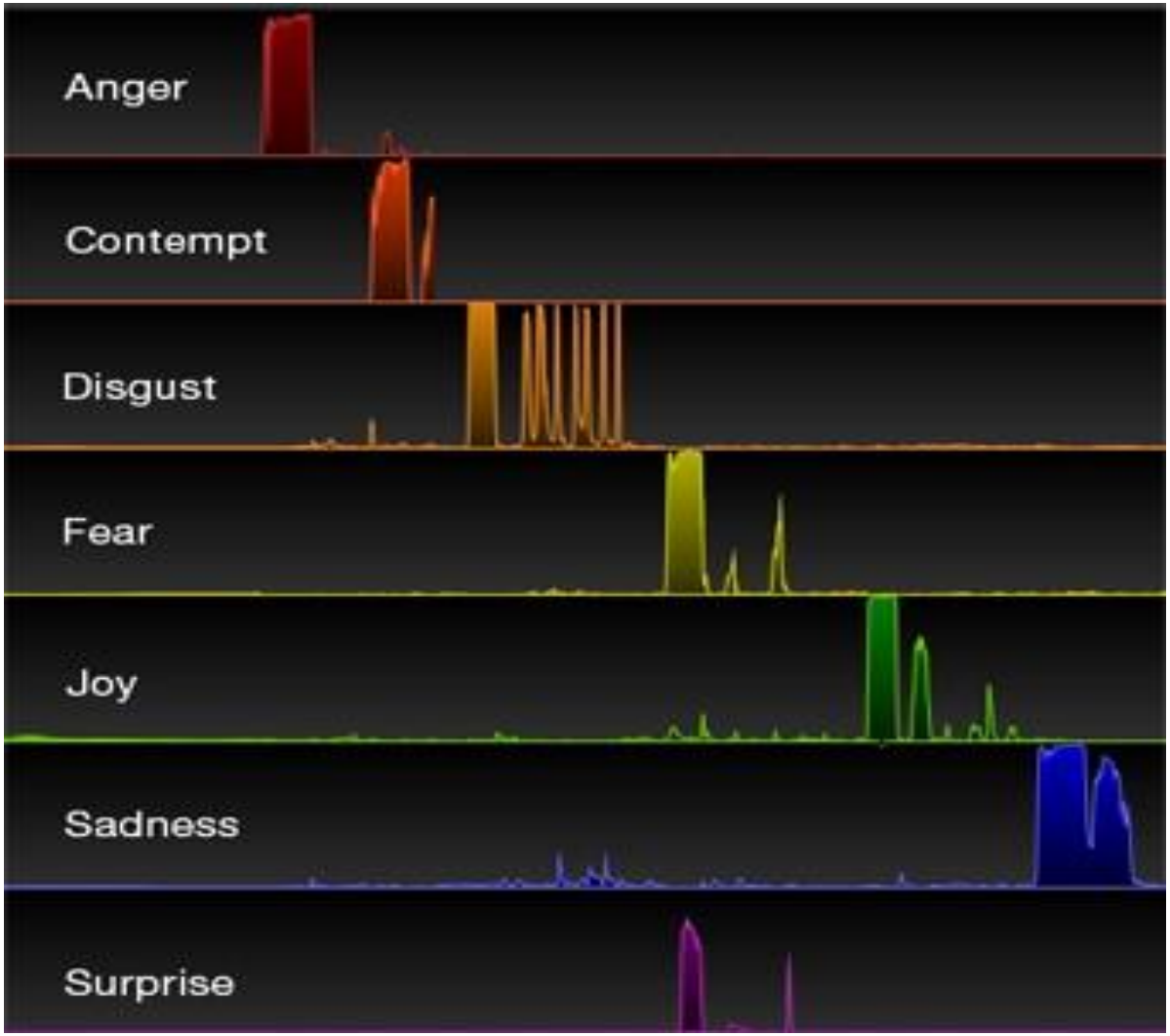
Emotion-Aware Computing

Facial Recognition

- 43 muscles
- Control 1000s of facial nuances and facial emotional revelation



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Wave Modification Devices

Here are some possibilities:

1. MIT CSAIL: http://eqradio.csail.mit.edu/
2. Microsoft's Project Oxford: https://www.microsoft.com/cognitive-servi…/en-us/emotion-api
3. Apples Emotien: https://becominghuman.ai/apples-ai-secret-how-the-43-muscles-in-your-face-will-play-a-big-part-of-apple-s-new-ai-and-siri2-de8d4f54894

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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)*

Is the "Har.Osc." in our breathing?

- "If you look at someone in certain temperature and weather conditions — you see this even better in horses, but we are not speaking about horses now — you will see him breathing out, and the **breath becoming visible** as vapour in the air.
- Obviously as far as materialistic science is concerned, this breath a person exhales, disperses and dissolves and has no further significance. But it has significance for a person who follows up the phenomena of life with initiation science, for he sees in the patterns of the breath the exact traces of the moral or immoral conduct of the person.
- A person's **moral or immoral behaviour can be seen in the steamy breath**, and the breath of a person who is morally inclined is quite different from the breath of a person who is inclined to immorality.
- But 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**. -- *Art as Seen in the Light of Mystery Wisdom*, lecture 7, 3Jan1915, GA 275

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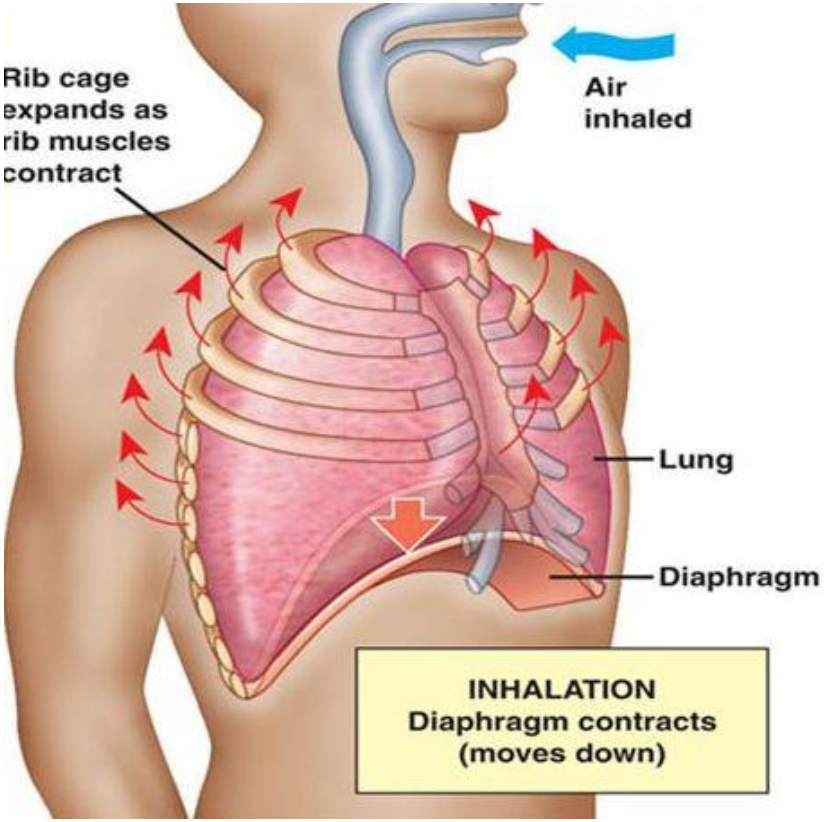
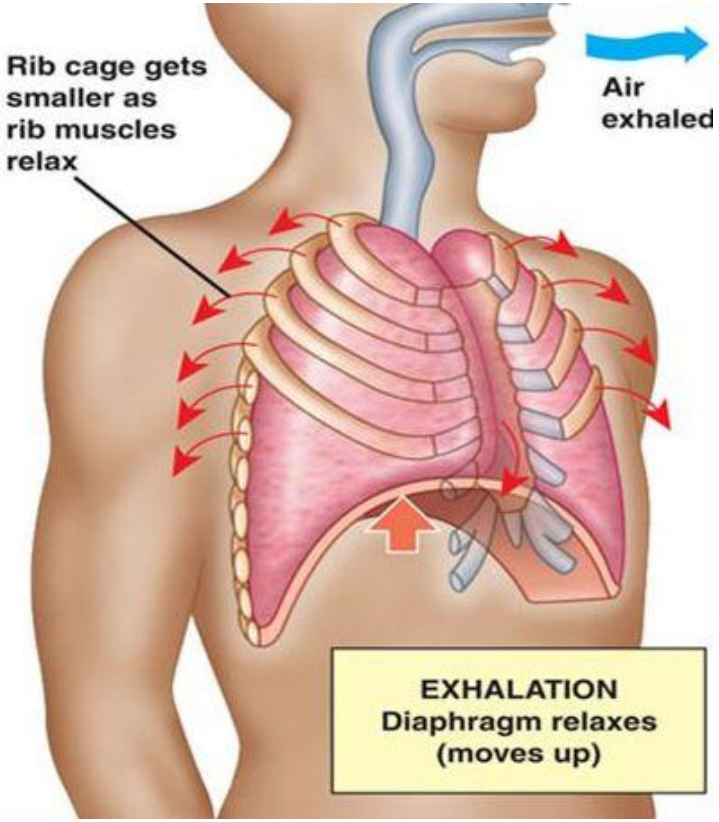
BREATHING

Can it lead to a Resonance Technology?





Mechanical perspective

What can be detected in Breathing?

Inhalation

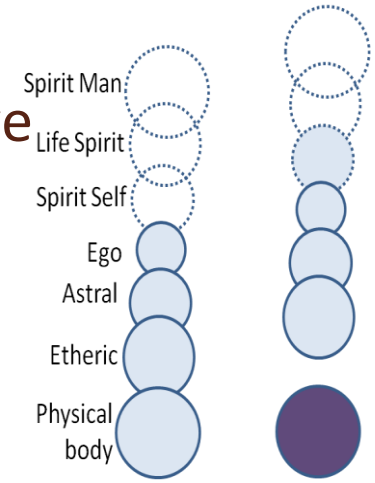
- **Air**
- **Astral**
- Oxygen – Nitrogen
  - Life – Death
- Spiritual beings absorbed into one's temple

Exhalation

- **Vapor**
- **Etheric**
- CO2 : Carbon
  - Philosopher's Stone
- Moral inclination visible to initiate in the breath
  - Can it be 'transmitted' to a machine?

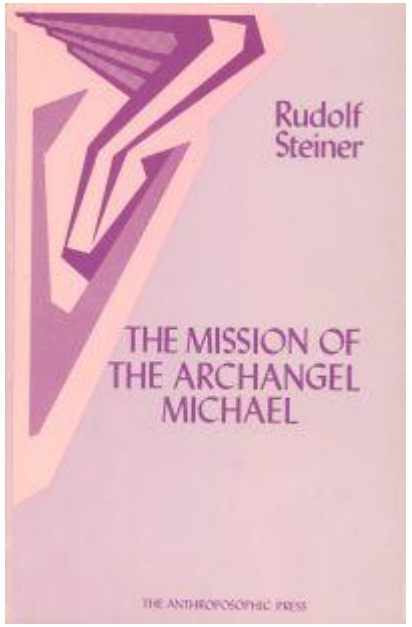
What do we breathe?

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



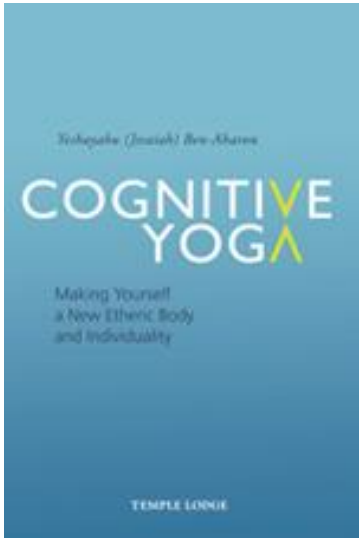
Breathing and Yoga

- 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**

Rudolf Steiner, *Art as Seen in the Light of Mystery Wisdom*, lecture 7, 3Jan1915, GA 275

Breathing: From Coarse to Refined

- **Above breathing** is more **refined**
  - Nerve-sense process: modified inhalation
    - Active in the ethers ***Warmth*** & ***Light***
- **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***

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

Thinking as Refined Breathing

- **In head**: process *not in the element of air* but in ***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:
      - Ethers of 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 mixed with air
- 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
  - [recall descriptions of Atlantean atmosphere]

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**

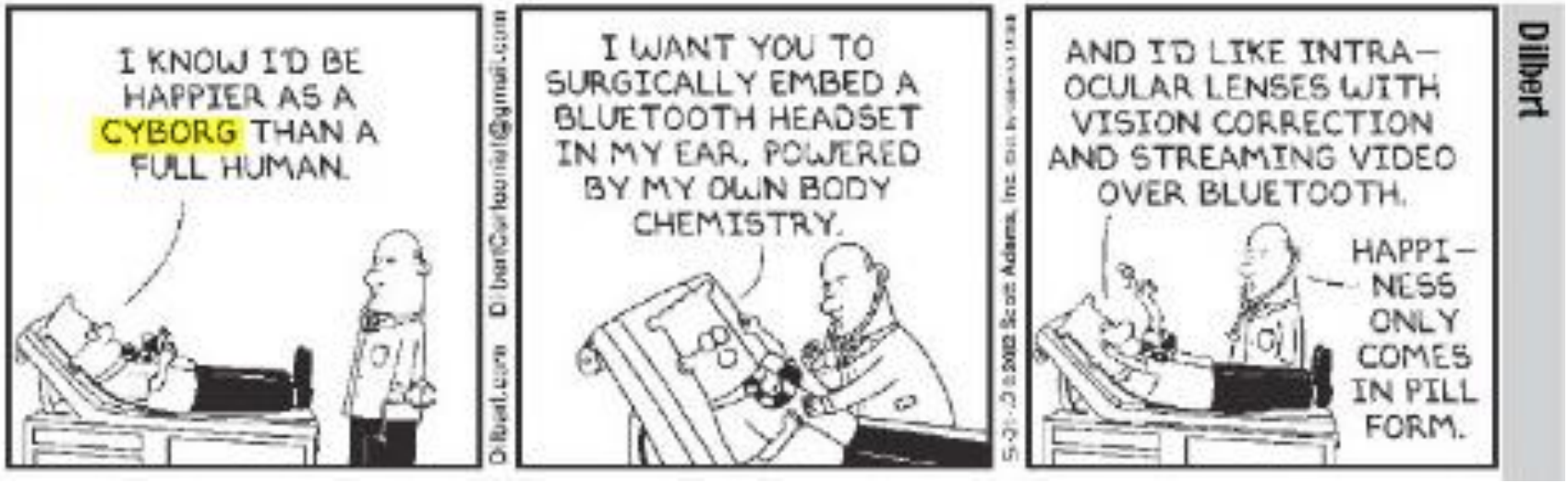
Merging Machines with our Bodies

- 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

spirit

soul

life



MACHINES HAVE ALREADY ENTERED OUR PHYSICAL BODY!

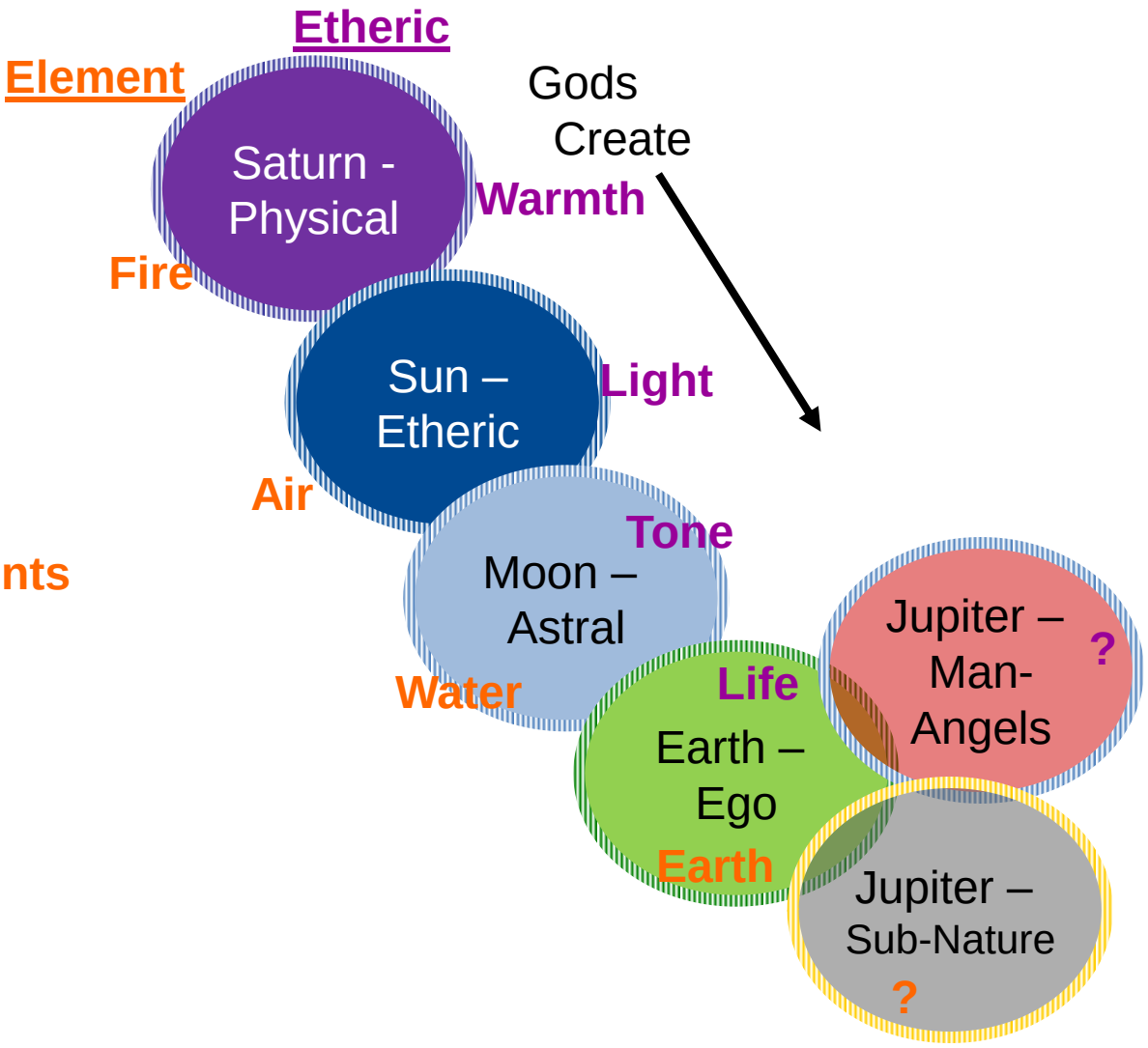
- “The form in the breath reminds one of beings that do not exist on earth at all as yet. These beings are a preparation for the ones that will reach their **human stage on Jupiter**. Their forms are very changeable and will pass through further changes in the future, for these beings are the first advance shadow images of the beings who will reach the human level on Jupiter.
- In a certain way we also owe our existence to the exhalation of the **Angeloi on the Moon**, and it is one of the moving experiences of spiritual life to know that Jupiter human beings of the future will evolve out of what we breathe out in present ages. If we turn to the Bible with such knowledge in mind, and read the opening words, we can tell ourselves, ‘Now we begin to understand what is meant when it says that the Elohim formed earthly man by breathing into him.’
- I will confess that I would never have understood the part about the Elohim breathing the living being of man into his mouth and nose, if I had not known beforehand that the breath of earthly human beings also contains the first germinal beginnings of the **beings who will become human on Jupiter**.
- But Jupiter human beings can only arise from the kind of breath that owes its existence to **deeds that obey the ‘you shall’, and which are therefore moral actions**.
- Thus we see that through our earthly morality **we take a creative part** in the whole cosmic order. It is indeed a creative power, and we can see that spiritual science gives us a strong **impulse for moral action** by telling us that we are working against the creation of Jupiter human beings, if we do not act in a moral way on earth. This gives morality a very real value and makes its existence worthwhile. Our human conduct is very strongly formed by what we acquire through spiritual science, especially as we become acquainted with real secrets regarding the cosmos.” -- *Art as Seen in the Light of Mystery Wisdom*, lec 7, 3Jan15, GA 275

Evolution of Elements and Ethers

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

Elements

- Electricity
- Magnetism
- Death



Michael's Role on Physical Body

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

Body as Vehicle for Life on Earth

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

Robots for Space Exploration

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

Relationship to our body evolves

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

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

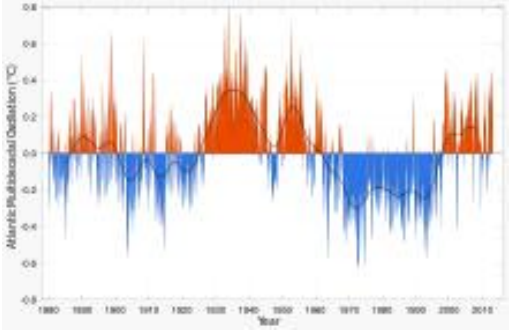
Duality of Human Nature (Centaur)

- "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

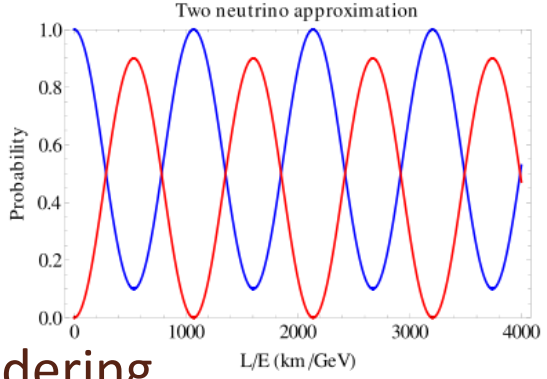
- "It will thus be essential, when these problems emerge, that no improper methods should be applied to them, but **only those elemental forces which belong to nature on their own account,** and great care will have to be taken **not to introduce improper forces** into the realm of machines."
- -- *The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

Conclusions

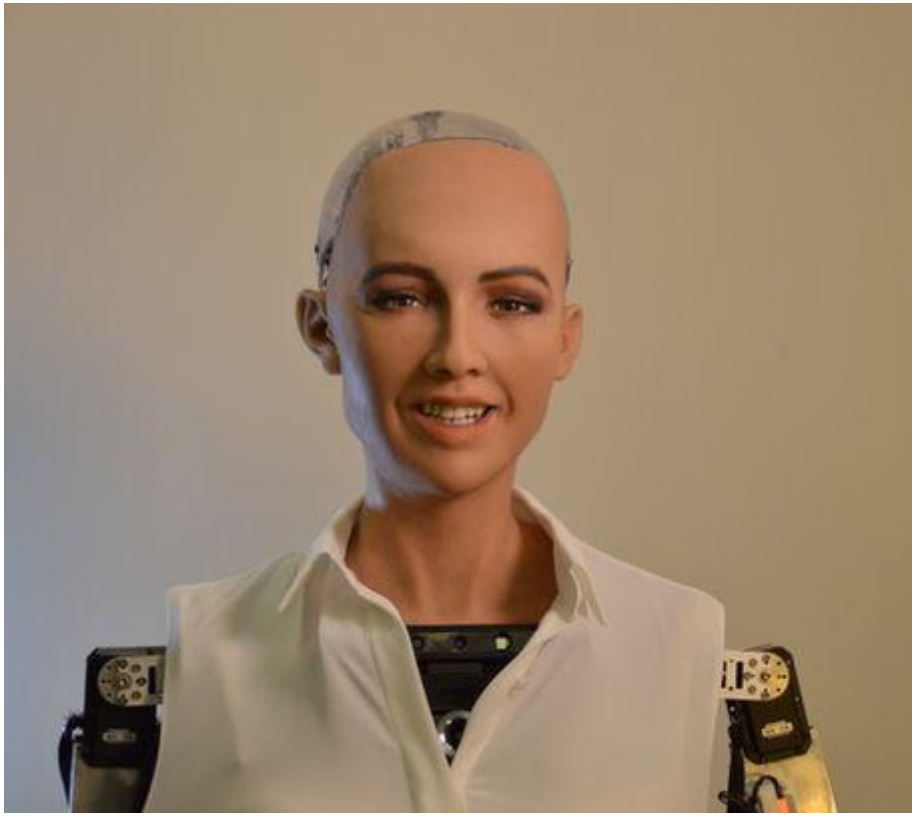
- Need to understand the vibratory nature of the Etheric before we can build Resonance Technologies
  - Relationship to sensing, thinking, feeling, and willing
  - Related but different from Atlantean Etheric (seed) technology
- We need to develop selfless love to drive the moral
- Humanity will ‘expand’ 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?

spirit

soul

life

Q&A



Hanson Robotics, 2016

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

Schedule

www.mystech.co

October 27, 2017 Lecture

- 19:30 – 21:00 Rudolf Steiner's Surprising View of the Future

October 28, 2017 Workshop

- 09:05-09:30 Registration, social time, tea/coffee
- 09:30-10:30 **Merging Through Rhythms and Ethers**
- 10:30-10:45 Break
- 10:45-12:30 Structured Discussion: The Challenge of Our Times

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)?

Additional 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

Movement or Matter?

- 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