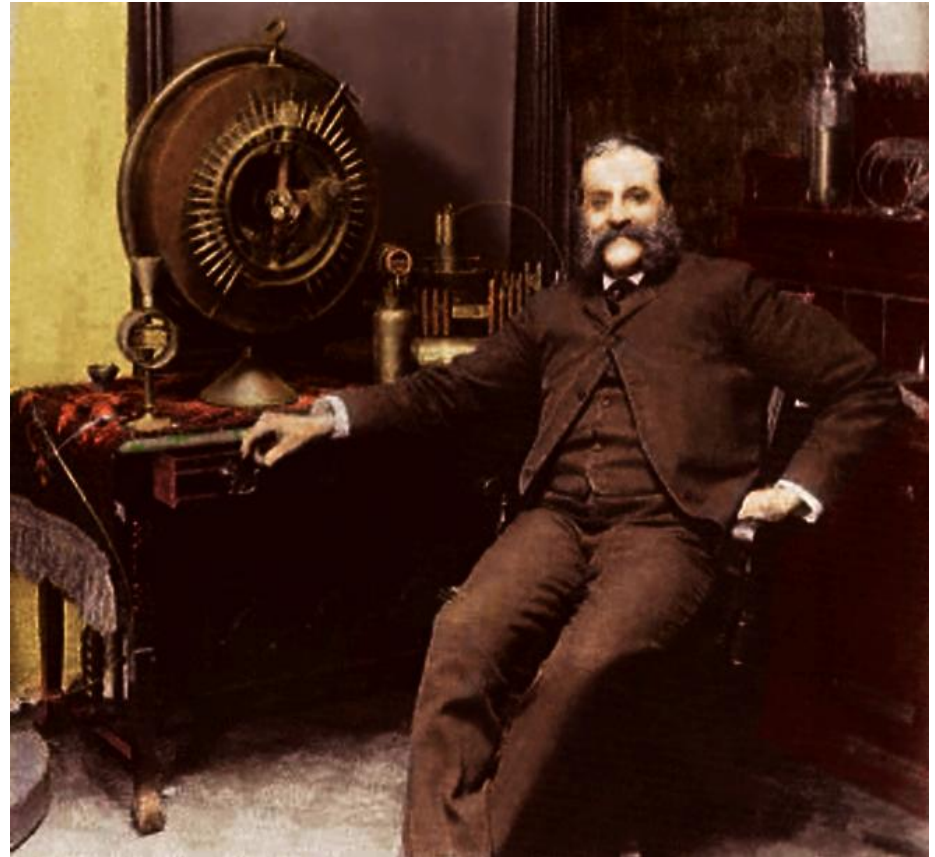




THE ROLE OF TECHNOLOGY IN HUMAN EVOLUTION

Electricity, Resonance, Keely, and Moral Technology



Toronto

Andrew Linnell

jandrewlinnell@yahoo.com

www.thechristianmysteries.com

4/29/2016

[Technology in Human Evolution](#)



SCHEDULE

April 28, 2016 Lecture 1

- 19:30 – 21:00 Merging with Machines – The Path to Jupiter?

April 29, 2016 Lecture 2

- 19:00 – 21:00 Sexuality and Technology – Preparations for the Remaining Post-Atlantean Ages

April 30, 2016 Workshop

- 09:30-10:00 Registration, social time, tea/coffee
- 10:00-11:30 Sexbots; Hephaestus; preparations for our time
- 11:30-12:30 Experiencing Rhythm Through Eurythmy: In Tune With Sound, Soul, And Creating
- 12:30-01:30 Lunch (BYO) together
- 01:30-03:00 **Electricity & evil, EMR, sensitivity & safety, resonance, rhythms, robotics, and life**
- 03:00-03:30 Break tea/coffee
- 03:30-04:00 Eurythmy exercises and tools for balancing technical work
- 04:00-05:00 Artificial intelligence, artificial soul; consciousness soul development, a path to “future Jupiter” and concluding remarks



MYTHOLOGY RECAP

- Prometheus: chained to rock, released only by initiation and the sacrifice of a centaur
 - Image of our times, we are so chained, centaur within each
 - Attack on the liver: pain pills, vicodin, statins, hepatitis, alcohol
 - “Upon this rock I build my church” – Christ-Jesus
- Hephaestus: thrown off Olympus, returns on donkey
 - God of technology and fire, foot malformed
- Link to:
 1. Temple Legend (golden triangle, sons of fire)
 2. Cain and Abel and Seth (beginning of sexual heredity
 - Two streams of humanity, masculine and feminine
 3. Adam and Eve (asexual times, incorporation of freedom)



WHAT TO CARRY INTO THIS SECTION

- Living Thinking as Foundation to Creation
- From Life to the lifeless, from consciousness to matter
- Interpenetration of thinking, feeling, and willing in soul
- Percept and concept RE-united in our thinking
 - Monistic world view
- Beings of Nature and super-Nature



THINKING AS A REFINED BREATHING

- “In the breathing rhythm it is in intimate relation to sense-perception and to thought. In the breathing of the lung the process is at its coarsest. Thence it grows finer and finer, till, as a highly refined breathing process, it becomes sense-perception and thought. Sense-perception is still very near to breathing; it is only a breathing through the sense-organs, not through the lungs. Thought, ideation, is farther removed from the lung-breathing, and is upheld by the Thinking system of man.” GA 26 and 236
- Consciousness arises only in time intervals of up to 400 milliseconds, with gaps of unconsciousness in between
 - *Wrong concept: Sensory information is continuously translated into conscious perception (sight, sound, smell)*
- Our brain collects sensory information only at discrete time-points
- <http://medicalxpress.com/news/2016-04-brain-consciousness-slices.html>



THINKING IS A REFINED, DELICATE BREATHING

- Rhythmic system does not express itself in static condition but in continuous mobility
 - The blood circulation passes over into impulses of the movements of the limbs
- Head of man is a self-contained formation *at rest*
 - Studying in its interior how one part lies alongside another
 - Nothing can be known about the head if, say, the blood circulation in the head is studied by means of anatomy or physiology; for what the blood circulation achieves in the head is not connected with the head itself; it is connected merely with what the head needs from the rhythmic system
 - When the cranial bone is raised, circulation not really connected with the head is exposed
- This method is not applicable to the rhythmic system, which has its seat in the breast
- Everything there must be studied in its mobility
 - in the mobility of the blood circulation, of breathing, of thinking, of self-movement
 - This process can even be traced much farther into the physical
 - The breathing process passes over into the blood-process and thence works over into the brain
- R. Steiner, *Anthroposophical Leading Thoughts*, Memory and Conscience, GA 26



THE ALCHEMY OF THINKING

- Carbonic acid is formed in the human organism
- When the breathing process passes over into the brain and into the nervous system, **salt** substances are formed out of the carbonic acids; salt substances are deposited
- Thus we may say: when the human being thinks, *solids* are precipitated
- In the circulation, we find *fluidity*
- In the breath, the *gaseous*
- And in the principle of mobility when this passes over into movements, we find the *fiery*
- The material elements are contained in all this, but the elements in *mobility*, in a constant state of arising and passing away
 - R. Steiner, *Karmic Relationships*, Volume II: Lecture VIII, GA236



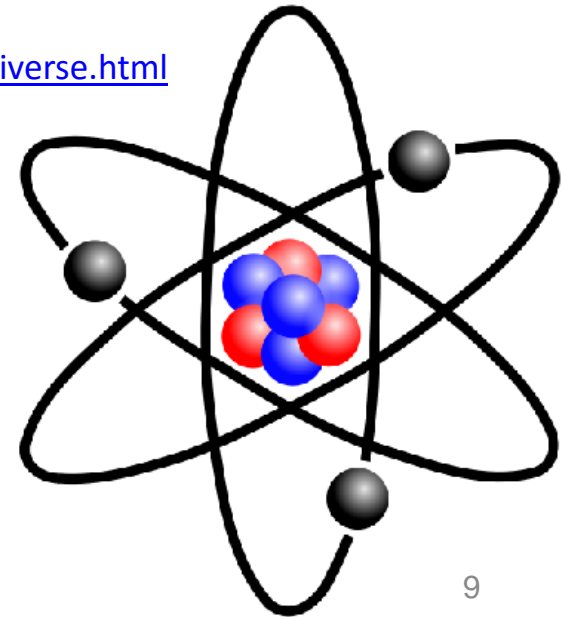
ELECTRICITY AS CARRIER OF EVIL

- “When ***we transform*** an atom into an electron, we do not transform it into a moral, but into an IMMORAL entity!
 - Electricity contains, to be sure, moral impulses, impulses of Nature, but these impulses are IMMORAL; they are instincts of evil, which **must be overcome** by the higher world
- If we look upon light as electricity we confuse good and evil
 - The greatest contrast to electricity is LIGHT
- We lose sight of the true conception of evil in the order of Nature, if we do not realize that through the electrification of the atoms ***we transform them into carriers of evil*** ”

– R. Steiner, *Concerning Electricity*, 28Jan1923, GA220

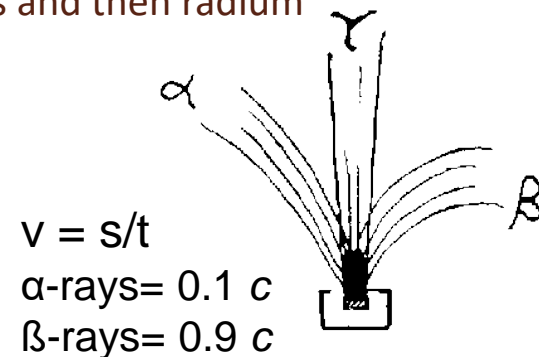
WHAT IS THE ATOM? - PHYSICS

- Nucleus like sun with electrons in orbit
 - Fixed number of orbits, multiple pairs in a given orbit
- New concept: “the universe as being filled with a quantum fluid. The scientists propose that this fluid is composed of gravitons—hypothetical massless particles that mediate the force of gravity.”
- Source: <http://phys.org/news/2015-02-big-quantum-equation-universe.html>



WHAT IS LIGHT?

- It spreads out in space, can take effect over distance
 - Electricity similar (e.g. spark, 'current' induced in parallel wire)
 - Waves (?)
 - Wireless transmission
 - Evacuated glass tube – electricity moves through the vacuum
 - Magnet can modify the light's path from the cathode (negative pole)
 - Crookes called it "radiant matter"
 - Special material spraying through space – but thru aluminum!
 - Fluorescence and then Roentgen with x-rays and then radium
 - Laser: like electricity in a wire? Induction?
- Opposite: Gravity, Obscurity
 - Darkness
- Does it have levity properties?

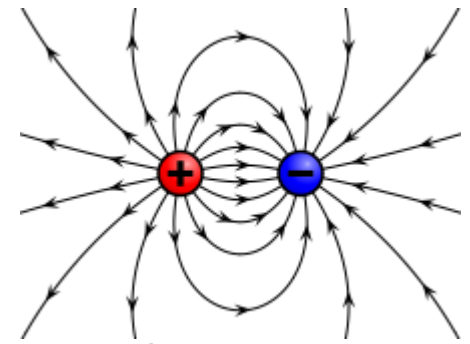




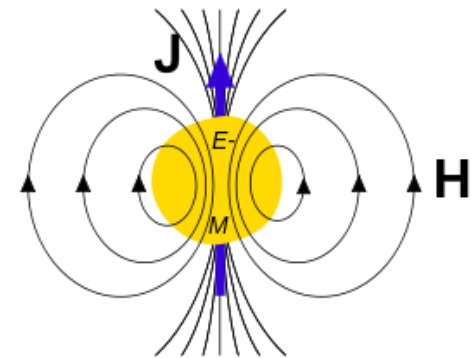
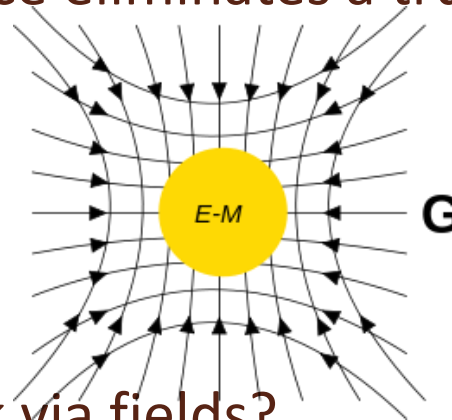
WHAT IS ENERGY?

- $E = mc^2$
 - Energy as a product of mass and velocity squared
 - Light speed nearly infinite from perspective of earth
 - Thus conversion from matter to energy is imponderably large
- Invisible, particle-less, e.g. heat energy
 - We picture heat as molecular vibration, more heat=more motion
 - Old Saturn: heat/warmth without matter
- Conservation of energy
 - Transformable into other types, e.g. mechanical
- Relationship of energy to etheric (and fallen etheric)?

WHAT IS A FIELD?



- A **field** is a *physical quantity* that has a value for each point in space and time – [Wikipedia](#)
- In quantum theory a field occupies space, contains energy, and its presence eliminates a true vacuum
- Magnetic field
- Gravitational field
 - Inversely proportional
 - square of the distance
- Do etheric forces work via fields?
 - Counterspace? Peripheral forces?
 - How proportional to the distance from the source?





DIFFERENT VELOCITIES OF SPIRITUAL ACTS

- What brings about the **most important things** that play into the life of present time?
- It is the **different velocities** with which the normal, the Luciferic and the Ahrimanic spiritual activities work into one-another
- It is that differences of velocity are there in **the great spiritual streams** to which the web and woof of the world is subjected
- The **scientific pathway** which has opened out in the most recent times is **compelling** even Physics — though, to begin with, **unconsciously** — to go into differences of velocity in a way very similar to the way Spiritual Science had to do for the great all-embracing **agencies of Cosmic Evolution**
- - R. Steiner, *First Scientific Course*, Stuttgart, 2Jan1920, GA320

Vs. Goethe's Color Theory

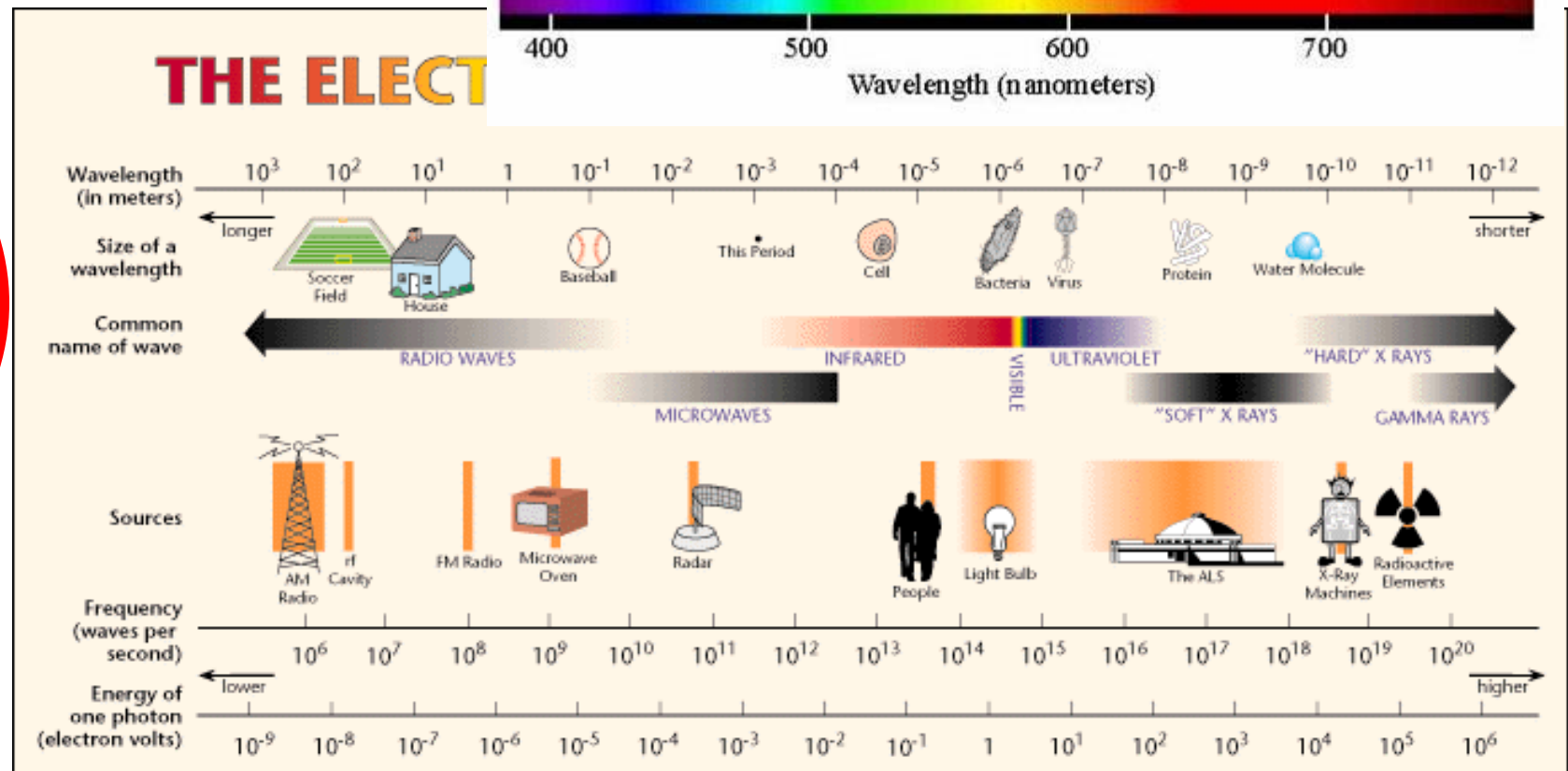
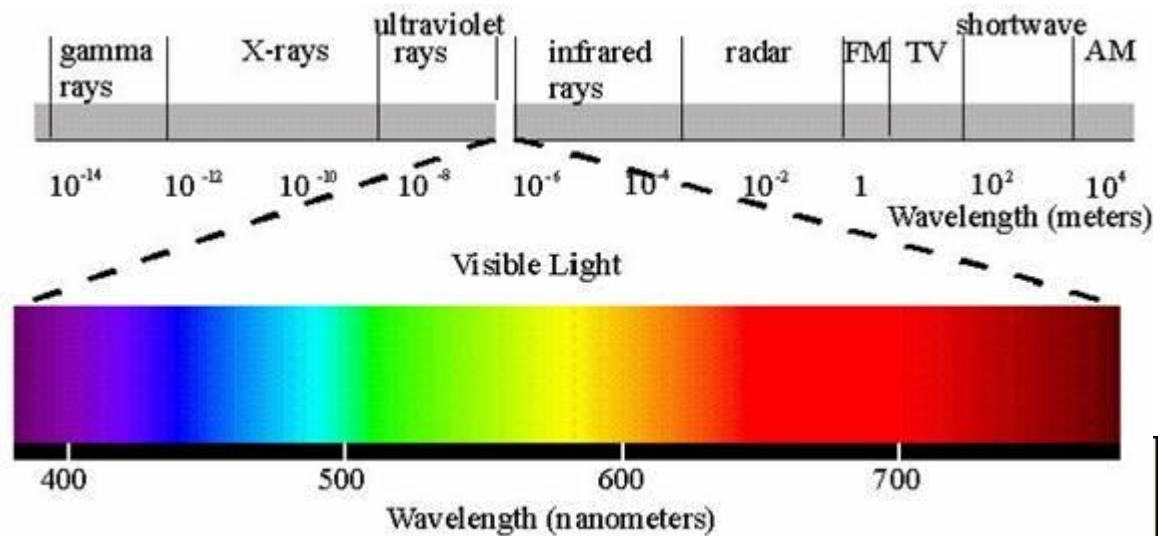


Chart from Berkeley Lab, LBNL, www-als.lbl.gov



OSCILLATION: EXPANSION/CONTRACTION

- Playground swing
- Circadian cycles
- Daily, weekly, monthly cycles
- Moon cycles: female (28) and male (30)
- Seasonal: Polar ice cap thaw and freeze
- Platonic Year: Ice Ages – will they repeat in 12K years?
- Solar system within the galaxy (within the Milky Way)
 - What is the seed for the next? Earth!
- Universe (big bang expansion – contraction)

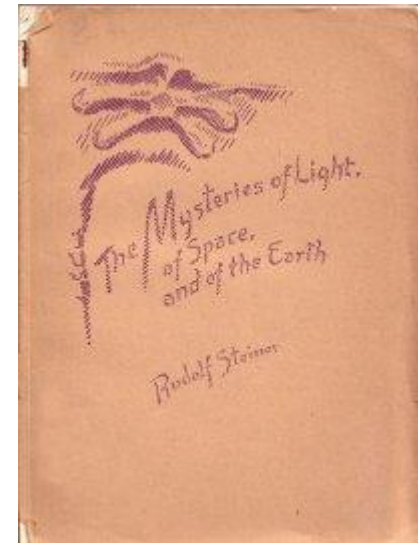
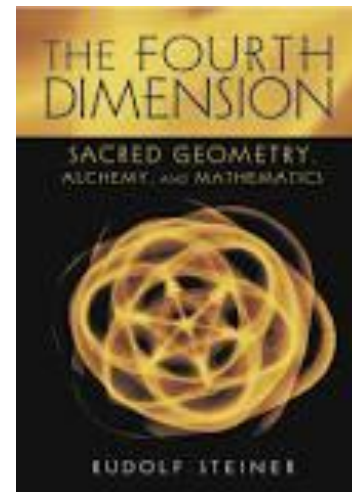
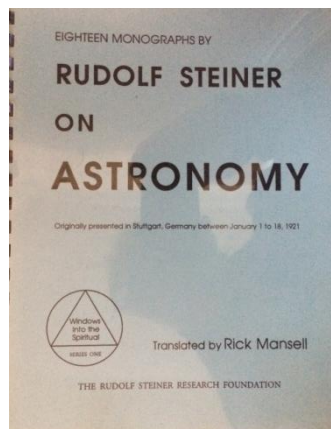
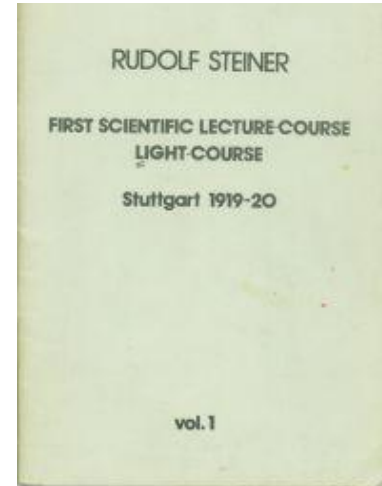


FUNDAMENTALS FOR KEELY MACHINES

- Frequency – wavelength, number
- Lifeless
- Soulless
- ?: Amoral/immoral
- Quality e.g. redness – Bull reacts to red
- Living
- Soulful
- Moral
- Development of mechanical occultism demands a grasping of all of the above
- Needed: methods (PFM) to allow the “blind” to help in the work towards moral technology
- As long as we research in number, we’ll not find it

SCIENCE LECTURE COURSES

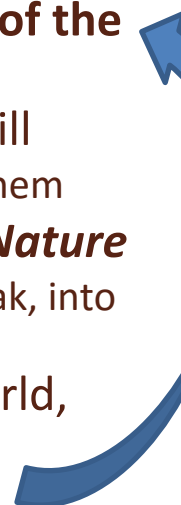
- First: Light
- Second: Warmth
- Third: Relation of branches to Astronomy
- Fourth: Fourth Dimension
- Prelim: Mysteries of Light, of Space, and of Earth



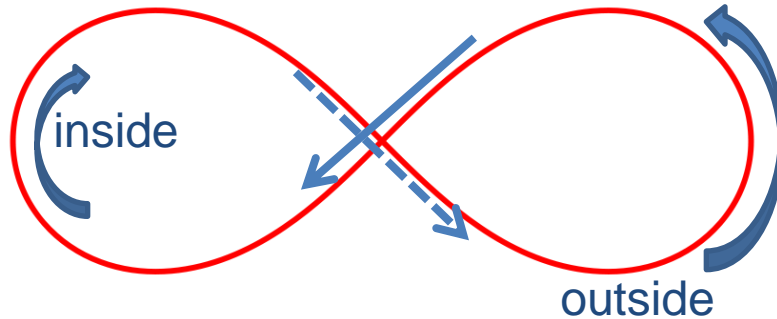


FROM THE FIRST SCIENCE COURSE

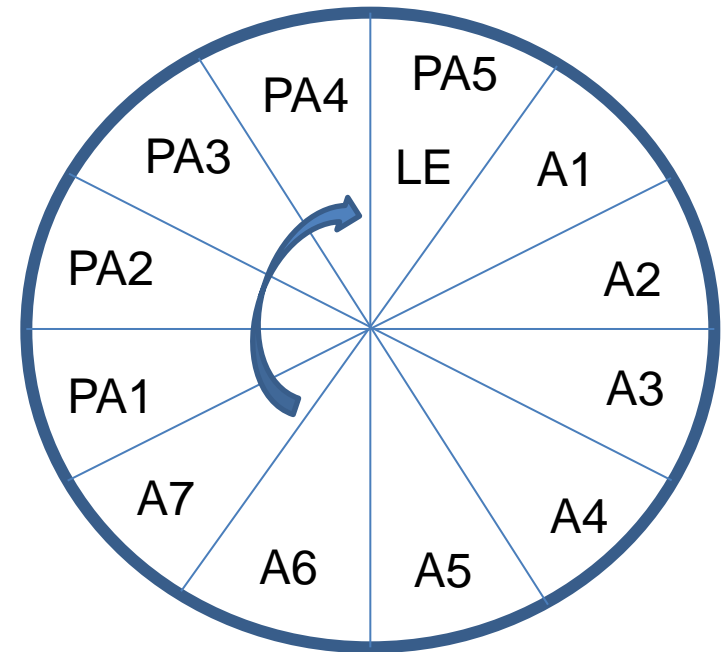
STUDY OF ELECTRICITY AND MAGNETISM = STUDY OF MATTER

- “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**
- 

IN TO OUT AND OUT TO IN



- During Lemuria, electricity existed outside of body
 - As it became inside, we passed through the mid-point
- In the 18th century the crossing point was reached
- Now electricity moves from within to the outside
 - Homes with “nerves”, robots, future bodies
 - Will activity, hand movement, EMR



G. Wachsmuth, The Evolution of Mankind, 1961

PERIODIC CHART

<u>Z</u>	<u>Element</u>	<u>No. of electrons/shell</u>	<u>Group</u>
1	Hydrogen	1	1
2	Helium	2	18
3	Lithium	2, 1	1
4	Beryllium	2, 2	2
5	Boron	2, 3	13
6	Carbon	2, 4	14
7	Nitrogen	2, 5	15
8	Oxygen	2, 6	16
9	Fluorine	2, 7	17
10	Neon	2, 8	18
11	Sodium	2, 8, 1	1
12	Magnesium	2, 8, 2	2
13	Aluminium	2, 8, 3	13
14	Silicon	2, 8, 4	14
15	Phosphorus	2, 8, 5	15
16	Sulfur	2, 8, 6	16
17	Chlorine	2, 8, 7	17
18	Argon	2, 8, 8	18

2, 8, 8, 1, 2


2, 8, 8, 8, 2, 1

19	Potassium	2, 8, 8, 1	1
20	Calcium	2, 8, 8, 2	2
21	Scandium	2, 8, 9, 2	3
22	Titanium	2, 8, 10, 2	4
23	Vanadium	2, 8, 11, 2	5
24	Chromium	2, 8, 13, 1	6
25	Manganese	2, 8, 13, 2	7
26	Iron	2, 8, 14, 2	8
27	Cobalt	2, 8, 15, 2	9
28	Nickel	2, 8, 16, 2	10
29	Copper	2, 8, 18, 1	11
30	Zinc	2, 8, 18, 2	12
31	Gallium	2, 8, 18, 3	13
32	Germanium	2, 8, 18, 4	14
33	Arsenic	2, 8, 18, 5	15
34	Selenium	2, 8, 18, 6	16
35	Bromine	2, 8, 18, 7	17
36	Krypton	2, 8, 18, 8	18



37	Rubidium	2, 8, 18, 8, 1	1
38	Strontium	2, 8, 18, 8, 2	2
39	Yttrium	2, 8, 18, 9, 2	3
40	Zirconium	2, 8, 18, 10, 2	4
41	Niobium	2, 8, 18, 12, 1	5
42	Molybdenum	2, 8, 18, 13, 1	6
43	Technetium	2, 8, 18, 13, 2	7
44	Ruthenium	2, 8, 18, 15, 1	8
45	Rhodium	2, 8, 18, 16, 1	9
46	Palladium	2, 8, 18, 18	10
47	Silver	2, 8, 18, 18, 1	11
48	Cadmium	2, 8, 18, 18, 2	12
49	Indium	2, 8, 18, 18, 3	13
50	Tin	2, 8, 18, 18, 4	14
51	Antimony	2, 8, 18, 18, 5	15
52	Tellurium	2, 8, 18, 18, 6	16
53	Iodine	2, 8, 18, 18, 7	17
54	Xenon	2, 8, 18, 18, 8	18

71	Lutetium	2, 8, 18, 32, 9, 2	3
72	Hafnium	2, 8, 18, 32, 10, 2	4
73	Tantalum	2, 8, 18, 32, 11, 2	5
74	Tungsten	2, 8, 18, 32, 12, 2	6
75	Rhenium	2, 8, 18, 32, 13, 2	7
76	Osmium	2, 8, 18, 32, 14, 2	8
77	Iridium	2, 8, 18, 32, 15, 2	9
78	Platinum	2, 8, 18, 32, 17, 1	10
79	Gold	2, 8, 18, 32, 18, 1	11
80	Mercury	2, 8, 18, 32, 18, 2	12
81	Thallium	2, 8, 18, 32, 18, 3	13
82	Lead	2, 8, 18, 32, 18, 4	14
83	Bismuth	2, 8, 18, 32, 18, 5	15
84	Polonium	2, 8, 18, 32, 18, 6	16
85	Astatine	2, 8, 18, 32, 18, 7	17
86	Radon	2, 8, 18, 32, 18, 8	18



87	Francium	2, 8, 18, 32, 18, 8, 1	1
88	Radium	2, 8, 18, 32, 18, 8, 2	2
89	Actinium	2, 8, 18, 32, 18, 9, 2	
90	Thorium	2, 8, 18, 32, 18, 10, 2	
91	Protactinium	2, 8, 18, 32, 20, 9, 2	
92	Uranium	2, 8, 18, 32, 21, 9, 2	
93	Neptunium	2, 8, 18, 32, 22, 9, 2	
94	Plutonium	2, 8, 18, 32, 24, 8, 2	
95	Americium	2, 8, 18, 32, 25, 8, 2	
96	Curium	2, 8, 18, 32, 25, 9, 2	
97	Berkelium	2, 8, 18, 32, 27, 8, 2	
98	Californium	2, 8, 18, 32, 28, 8, 2	
99	Einsteinium	2, 8, 18, 32, 29, 8, 2	
100	Fermium	2, 8, 18, 32, 30, 8, 2	
101	Mendelevium	2, 8, 18, 32, 31, 8, 2	
102	Nobelium	2, 8, 18, 32, 32, 8, 2	

103	Lawrencium	2, 8, 18, 32, 32, 8, 3 (?)	3
104	Rutherfordium	2, 8, 18, 32, 32, 10, 2 (?)	4
105	Dubnium	2, 8, 18, 32, 32, 11, 2 (?)	5
106	Seaborgium	2, 8, 18, 32, 32, 12, 2 (?)	6
107	Bohrium	2, 8, 18, 32, 32, 13, 2 (?)	7
108	Hassium	2, 8, 18, 32, 32, 14, 2 (?)	8
109	Meitnerium	2, 8, 18, 32, 32, 15, 2 (?)	9
110	Darmstadtium	2, 8, 18, 32, 32, 16, 2 (?)	10
111	Roentgenium	2, 8, 18, 32, 32, 17, 2 (?)	11
112	Copernicium	2, 8, 18, 32, 32, 18, 2 (?)	12
113	Ununtrium	2, 8, 18, 32, 32, 18, 3 (?)	13
114	Flerovium	2, 8, 18, 32, 32, 18, 4 (?)	14
115	Ununpentium	2, 8, 18, 32, 32, 18, 5 (?)	15
116	Livermorium	2, 8, 18, 32, 32, 18, 6 (?)	16
117	Ununseptium	2, 8, 18, 32, 32, 18, 7 (?)	17
118	Ununoctium	2, 8, 18, 32, 32, 18, 8 (?)	18



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



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 ANTITHESSES

- 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



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



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”



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



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.
 - “What surrounds you in nature will become your inner being
- **“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
[*Technology in Human Evolution*](#)



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, ...

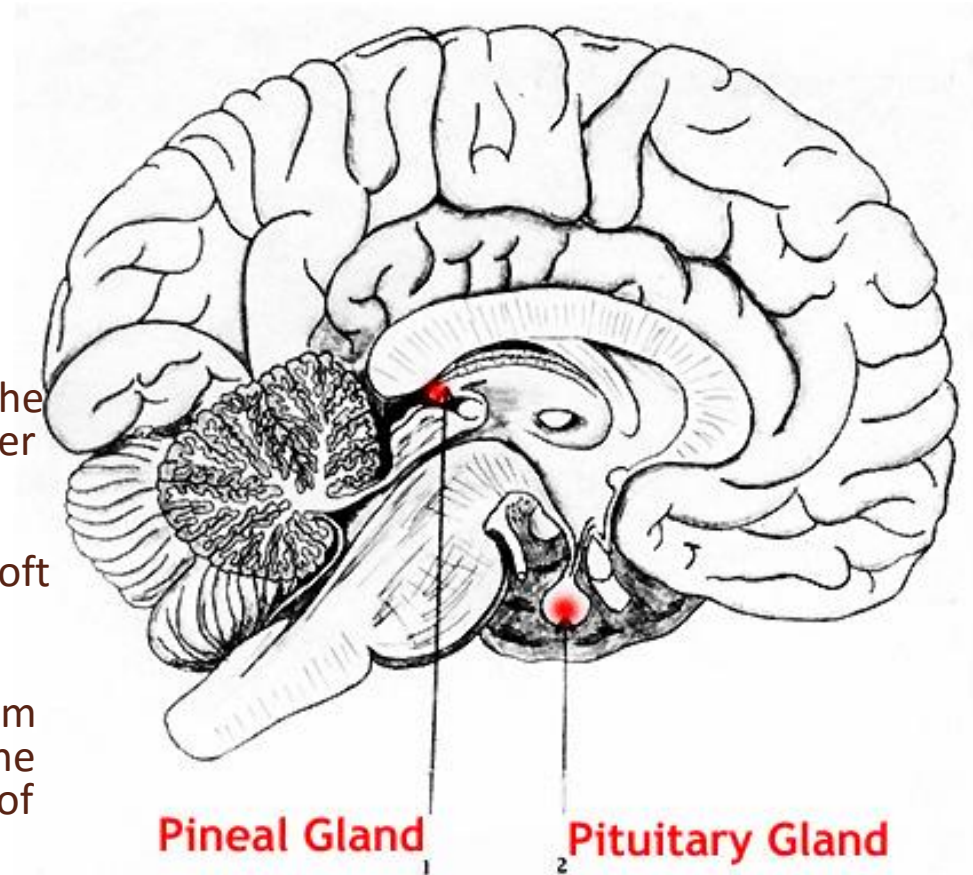


SENSITIVITY FOR ELECTRO-MAGNETISM

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

ELECTRO-MAGNETIC RADIATION

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

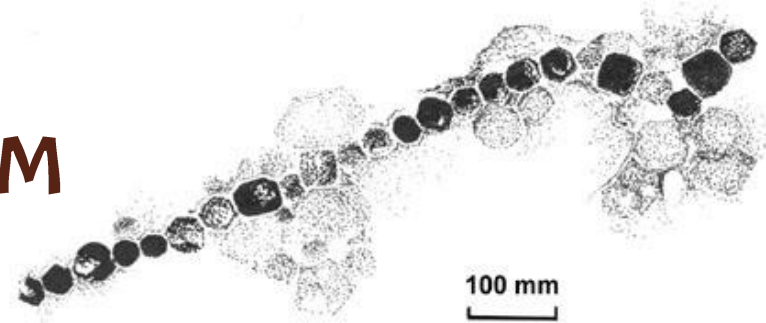


RECOMMENDATIONS

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

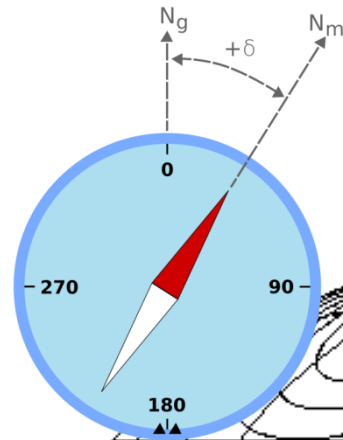


BIO-ELECTROMAGNETISM



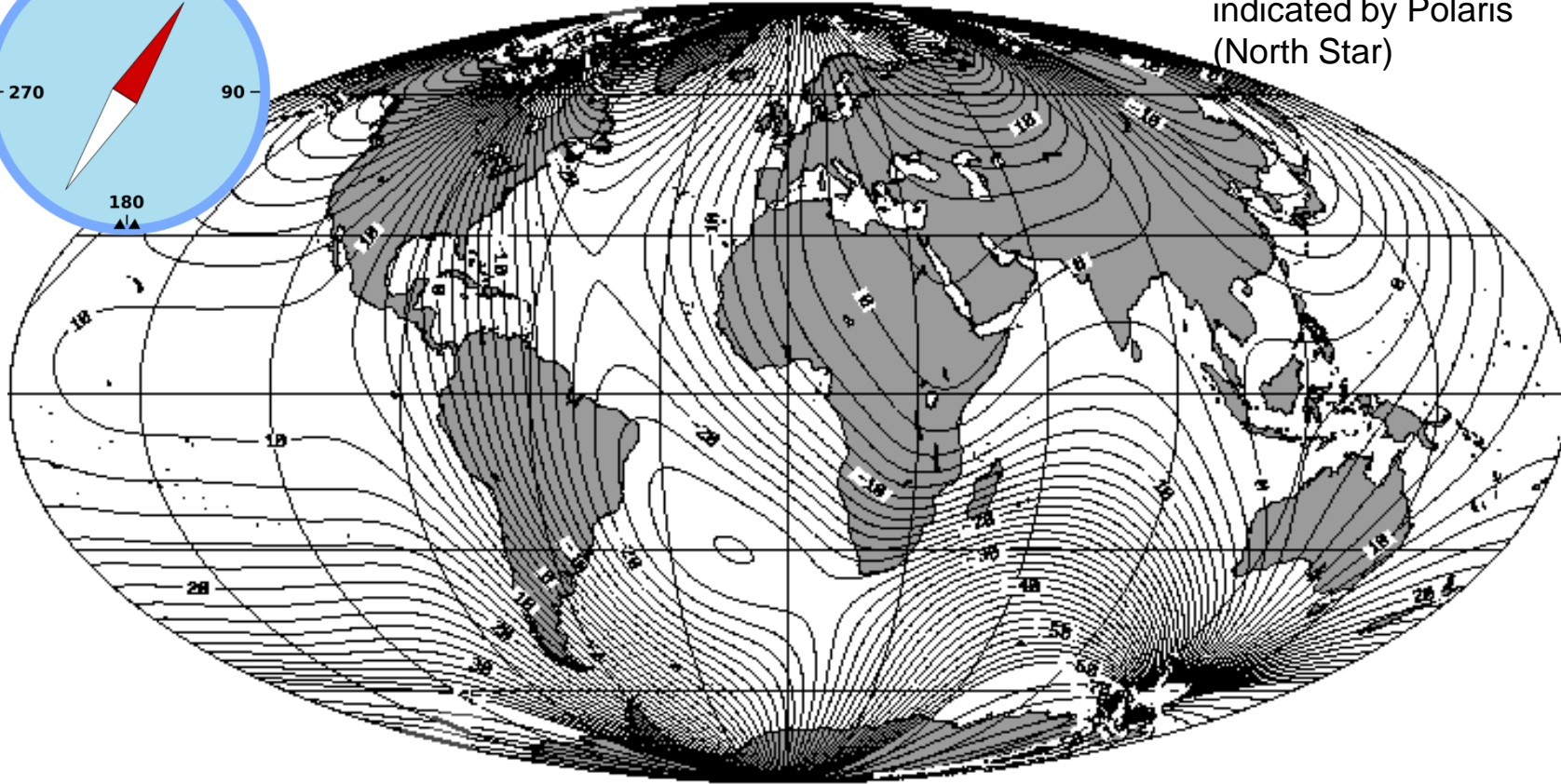
- Electricity and magnetism used in healing
 - Why? Affect rhythm? Affect “bad” cells more than “good”?
 - Bio-rhythms, melatonin – pineal
 - Magnets in limb braces
 - Electro-therapy
 - Electrical conductors:
 - Gold and silver jewelry,
 - Copper rods in eurythmy
- Piezo-electricity: bone, DNA and various proteins
 - Electricity resulting from (piezo) pressure
 - Piezoelectric effect is “the linear electromechanical interaction between the mechanical and the electrical state in crystalline materials” - *Wikipedia*
- 100M magnetite (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?

TRUE NORTH AND MAGNETIC NORTH



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

North celestial pole is
indicated by Polaris
(North Star)





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

APPROACHES TO MECHANICAL OCCULTISM

Which
side are
you on?

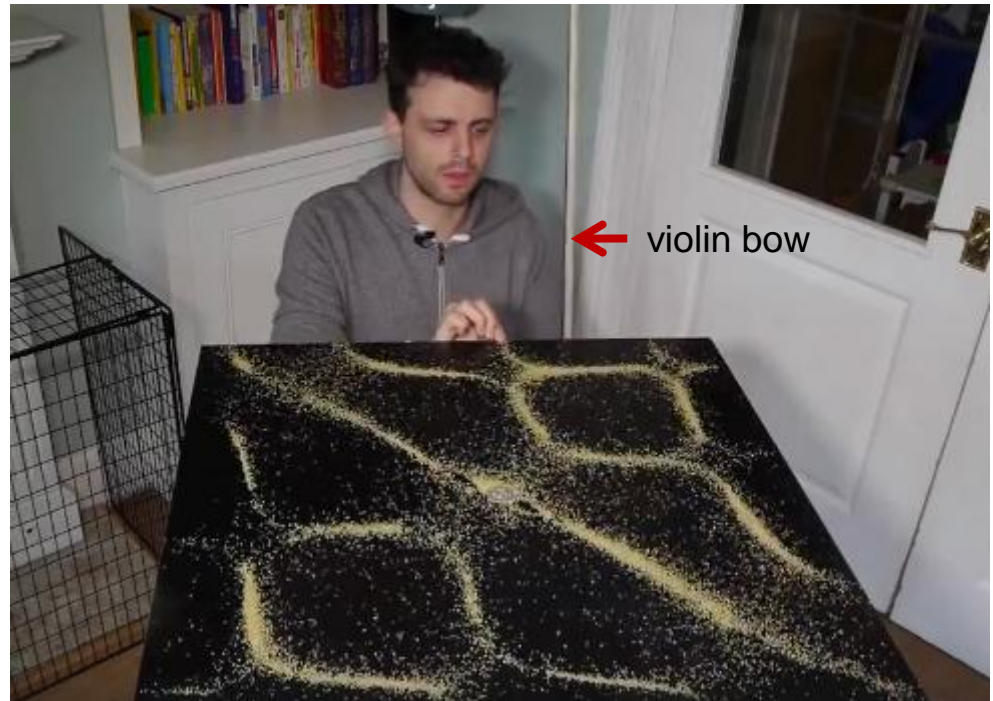
- Keely's pronouncements & indications obscured
- 1888: "Occultists generally believe that the **world is not yet ready** for the appearance of such terrible forces in the life of humanity. Man is too selfish, cruel, stupid, unsympathetic, bestial, to be entrusted with what in sober reality are secondary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

THE
CHALLENGE
OF THE
TIMES

Rudolf
Steiner

RESONANCE

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





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 SCHILLER FILE
- Paul Eugen Schiller
-



MERGING MACHINES WITH OUR BODIES

- Physical body: transient but appearance of longevity
 - New: used by consciousness soul as its instrument, brain-thinking
 - That which forms crystals in the mineral realm is permeated in man by the Consciousness Soul e.g. magnetite crystals in the brain
- Etheric body: less-transient, motion, flowing river
 - Used by intellectual soul as its instrument
 - "No man ever steps in the same river twice" – Heraclitus
- Astral body: seat for birth of eternal, airy
 - Used by sentient soul as its instrument
- Ego 'body': eternity lives through the spirit, fiery
- Merging of machines and mankind
 - While it appears at the physical, it is more so at the etheric
 - T, F, &W in the soul act through the etheric
 - We couple to machines by harnessing the etheric
 - What happens to such an etheric body?
 - Does it become "parched"?
 - *For my yoke is easy and my burden is light* – Matthew 11:30



MICROCOSM OF THE MACROCOSM

- Nerves
- Blood
- Nerve-Blood, breathing
- Thinking as breathing
- Thinking as light



RELATIONSHIP OF MAN AND EARTH

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



NATURAL AND ARTIFICIAL RHYTHMS

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



TERRESTRIAL VIBRATORY PHYSICS

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



EXAMPLE RHYTHMS

- Life – death
- Awake – asleep
- Breathe in – breathe out
- Sensing

INNER AND OUTER RHYTHMS

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





SHELDRAKE'S MORPHIC RESONANCE

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



SHELDRAKE ON AI

- Morphic fields take place in self-organizing systems. Machines are not self-organizing - they are made in factories - and I would not expect them to have morphic fields. Therefore I expect artificial intelligence on digital computers will remain rather limited in scope, and those who have high hopes for it will be disappointed. However if analogue computers with genuine quantum randomness were constructed, perhaps they could be organized by morphic fields and show much more intelligent behavior. It's possible that quantum computing will lead in this direction.

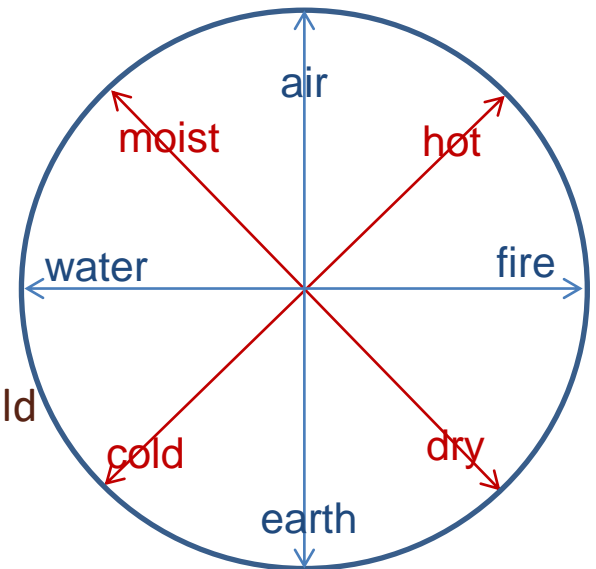


QUANTUM PHYSICS

- Modern tech depends on it
- 1982 empirically proven
- It is engineering, not science
- Key point – discovery of Consciousness
- And error of the Onlooker Model
- Model of Atom – leads to electricity as carrier of evil
- Model changes but not so for electricity – yet!
- Given concept of electricity becomes evil, what happens with brain-soul-AI?
- Consciousness: Memory in the brain: memory traces

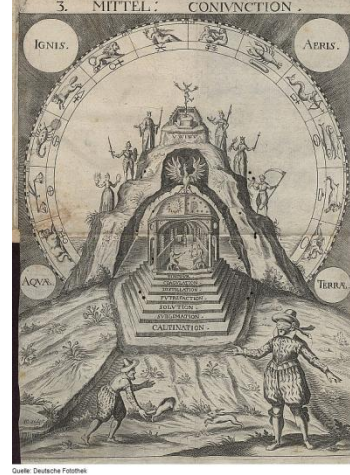
ELEMENTS AND QUALITIES

- Four Elements: earth, water, air, and fire (+ ethers)
- Four Qualities: hot, cold, dry, moist
 - Within each metal two of these qualities were interior and two were exterior
 - Examples:
 - Lead: externally cold and dry
 - Gold: externally hot and moist
 - Rearranging → different metal
 - Fall of Alchemy: egotistical search for gold
- Research: follow experiment in soul
- Emerald Tablets of Hermes
- Electricity (and fallen ethers) were not yet known



ALCHEMY BACKGROUND

- Thinking – Salt *process* -- Body
- Feeling – Mercury *process* -- Soul
- Willing – Sulfur *process* -- Spirit
- Alchemical processes: only known as taking place in one's image being
 - In **outer nature** there transpires **something** which is **related** to these processes as the processes in a **corpse** are related to those in a **living human**
 - The salt- and sulfur-processes spoken of by modern **chemistry** are those which the old Folk-Wisdom conceived as taking place within a **corpse**
- Ancients able, with the help of their *inwardly experienced* knowledge, to see that which is not of the earth, which belongs to a different world
- The moment we really understand these **salt-and sulfur**-processes we see the **pre-earthly life** of human
 - Earthly life: the sulfur- & salt-processes are dead in the external world of sense
 - What we perceive with our senses between birth and death, is dead
 - In pre-earthly existence: they are living
 - The real salt- and sulfur-processes are living when we experience them as they are in pre-earthly existence





SALT, FLUIDS, AND THE ETHERIC BODY

- Ancients: throughout the universe cosmic thoughts are weaving – the Logos is working
- Crystal-formations on earth are the embodiments of the single parts of the cosmic Word
- What is embodied in a salt is received through our senses and re-formed in our etheric body
 - Salt form dissolved by fluid re-forms as cube within oneself
 - Example: with sense of taste, one begins experience of salt
 - Processes of hearing and of sight can be described similarly
 - Though in their case the working of the salts in etheric form must be thought of in a more outward sense
- Cosmic thoughts are repeated in the thoughts of men
 - As a result of the re-forming in one's etheric body
 - The universe is recognized in man and man in the universe
 - The cosmos is reborn in the etheric body

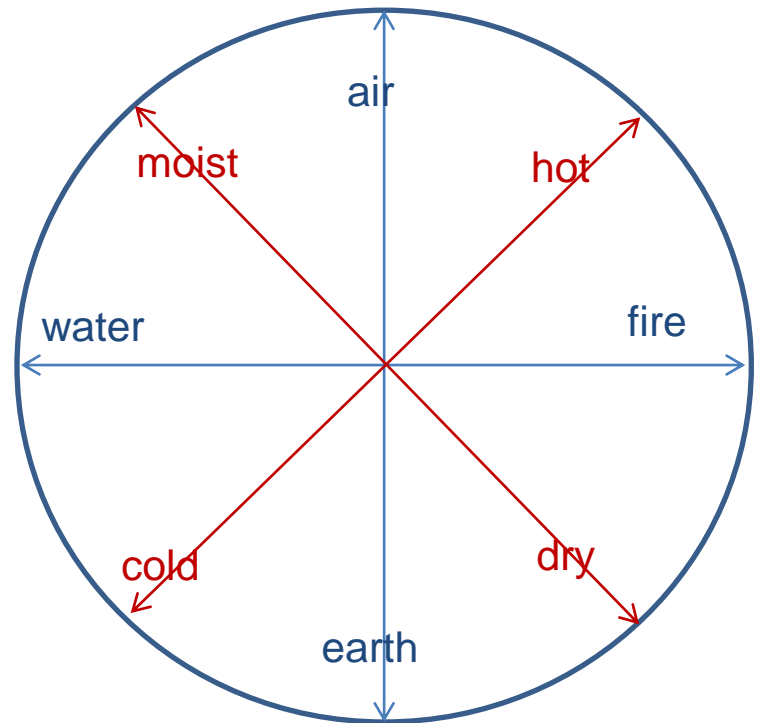


SULFUR, AIR, AND THE ASTRAL BODY

- Metamorphosis of etheric thoughts into a force
 - Our breath, air, breaks up our etheric thoughts
 - Our astral is activated to perform this
- The astral lays hold of the airy element and spreads over that which is etheric and fluidic
 - The wind upon the face of ocean
- The working of the ‘astral man’ in the ‘air man’ gives birth to one’s will
 - Together with the will there arise the forces of growth which are connected with the will
 - As in outer nature when something is burnt, the will works
 - Called a sulfur-process

MERCURY

- Is fluid and yet has form
- Can swing from etheric nature to astral nature
 - From fluidic to aeriform





POLARITIES

Gravity

- Compress
- Point
 - Spherical forms
- Salt
 - Phosphorous
- Earth
- Nerve/sense
- Thinking

Balance

- Balance
- Lemniscate
 - Linear forms
- Mercury
 - Carbon
- Water
- Rhythmical
- Feeling

Levity

- Suck-expand
- Plane
- Sulfur
 - Sulfur
- Air
- Metabolic
- Willing

Fire/warmth exists in all but moves matter towards levity



ELECTRICITY AND POLARITIES

- Observe: rub glass with leather or resin with wool



MORAL TECHNIQUE FROM POF AKA POSA

- Moral **deeds** presuppose
 1. faculty of **moral ideation** and
 2. **moral imagination** and
 3. **ability to transform** the sphere of perceptions without breaking the laws of their natural connection
- This *ability* is **moral technique**
 - It can be learned in the sense in which science can be learned
 - [Solomon]: Persons with **moral imagination who are without the technical skill** and therefore must make use of others for carrying out their representations
 - [Hiram]: Persons without moral imagination who receive moral representations from others and **skillfully imprint these** into actual reality



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

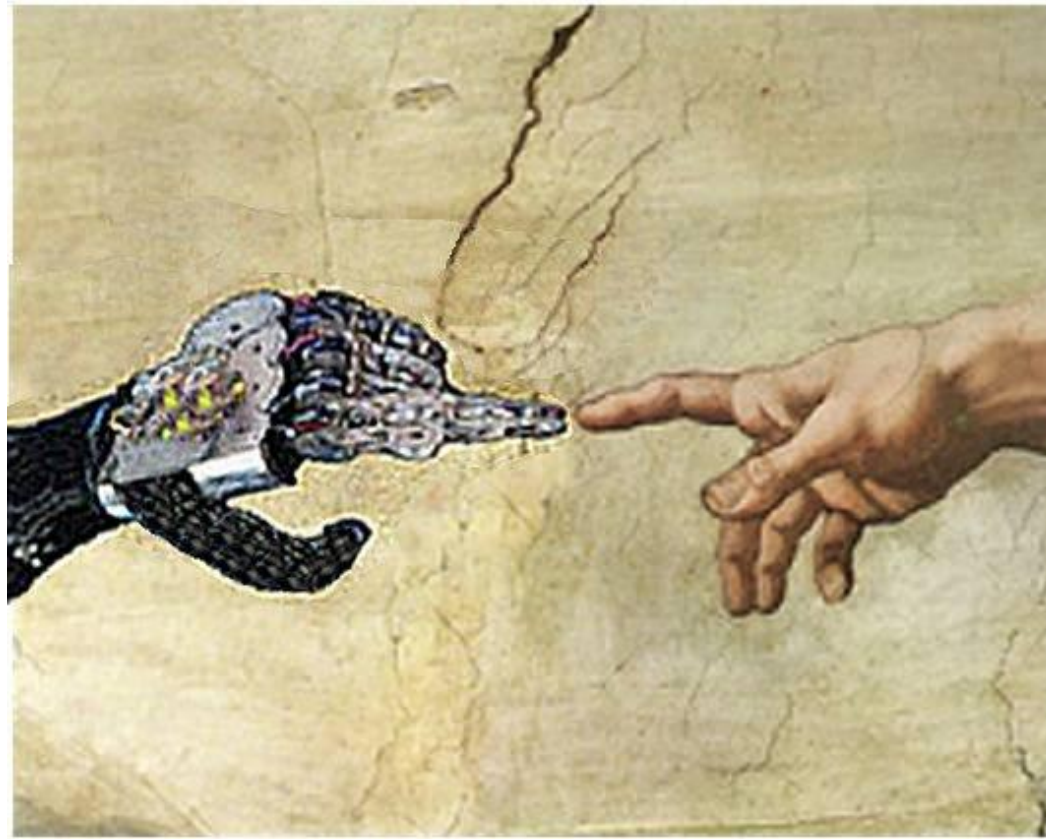
Grace for Meals

The plant seeds quicken in the
night of the earth
The green shoots spring through
the force of the air
The fruits grow ripe through the
might of the sun
So quickens the soul in the shrine
of the heart
So springs spirit might in the light
of the world
So ripens man's power in the
glory of God.

spirit

soul

life



END LECTURE 4 Q&A



SCHEDULE

April 28, 2016 Lecture 1

- 19:30 – 21:00 Merging with Machines – The Path to Jupiter?

April 29, 2016 Lecture 2

- 19:00 – 21:00 Sexuality and Technology – Preparations for the Remaining Post-Atlantean Ages

April 30, 2016 Workshop

- 09:30-10:00 Registration, social time, tea/coffee
- 10:00-11:30 Sexbots; Hephaestus; preparations for our time
- 11:30-12:30 Experiencing Rhythm Through Eurythmy: In Tune With Sound, Soul, And Creating
- 12:30-01:30 Lunch (BYO) together
- 01:30-03:00 Electricity & evil, EMR, sensitivity & safety, resonance, rhythms, robotics, and life
- 03:00-03:30 **Break tea/coffee**
- 03:30-04:00 **Eurythmy exercises and tools for balancing technical work**
- 04:00-05:00 Artificial intelligence, artificial soul; consciousness soul development, a path to “future Jupiter” and concluding remarks



EXTRA MATERIAL



Fallen Ethers	Elements	Ethers
Warmth	Fire	Warmth
Electricity	Air	Light
Magnetism	Water	Chemical
Fallen Life	Earth	Life



THE DOUBLE(S) IN US

- The **Luciferic** element allowed to take root in the **thinking**, inasmuch as it is connected to the **Astral** body and the **Astral realm** of angels, creates a beast or double of 'Doubt'. **Doubt** in spiritual things prevents humanity from creatively working in knowledge and leads to fantasy and illusion.
- The **Ahrimanic** element allowed to take root in the **feeling** inasmuch as it is connected to the **Etheric** body and lower **Devachanic realm** of the Archangels creates a 'beast' or double of **Hatred**, which prevents human beings from working in love towards spiritual ends, this leaves the soul hollow.
- The **Asuric** element in our **will** inasmuch as it is connected to the **physical** body and therefore the **Higher Devachanic** realm of the Archai leads to the creation of a beast or double of **Fear** or cowardice when it comes to the creative spiritual 'being', which leaves human beings vulnerable to attacks from earthly forces.



HARVARD RESEARCH IN THE 1920S

- Rats learned to escape from a water-maze and subsequent generations learned faster and faster. At the time this looked like an example of Lamarckian inheritance, which was taboo. The interesting thing is that after the rats had learned to escape more than 10 times quicker at Harvard, when rats were tested in Edinburgh, Scotland and in Melbourne, Australia they started more or less where the Harvard rats left off. In Melbourne the rats continued to improve after repeated testing, and this effect was not confined to the descendants of trained rats, suggesting a morphic resonance rather than epigenetic effect.

HOW DOES ELECTRICITY ARISE?

- Lightning
 - Static electricity?



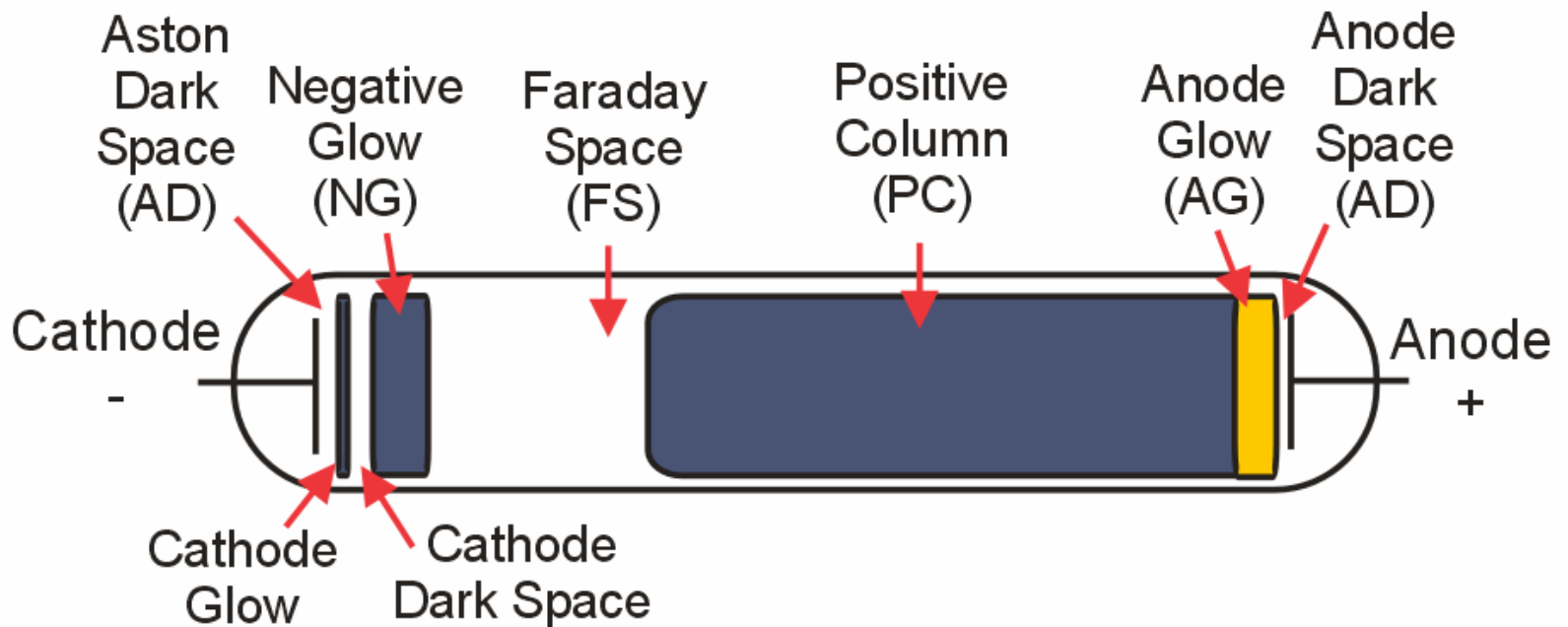
ELECTROMAGNETISM AND MACHINES

- <https://www.facebook.com/1507529206213982/videos/1519998604967042/>



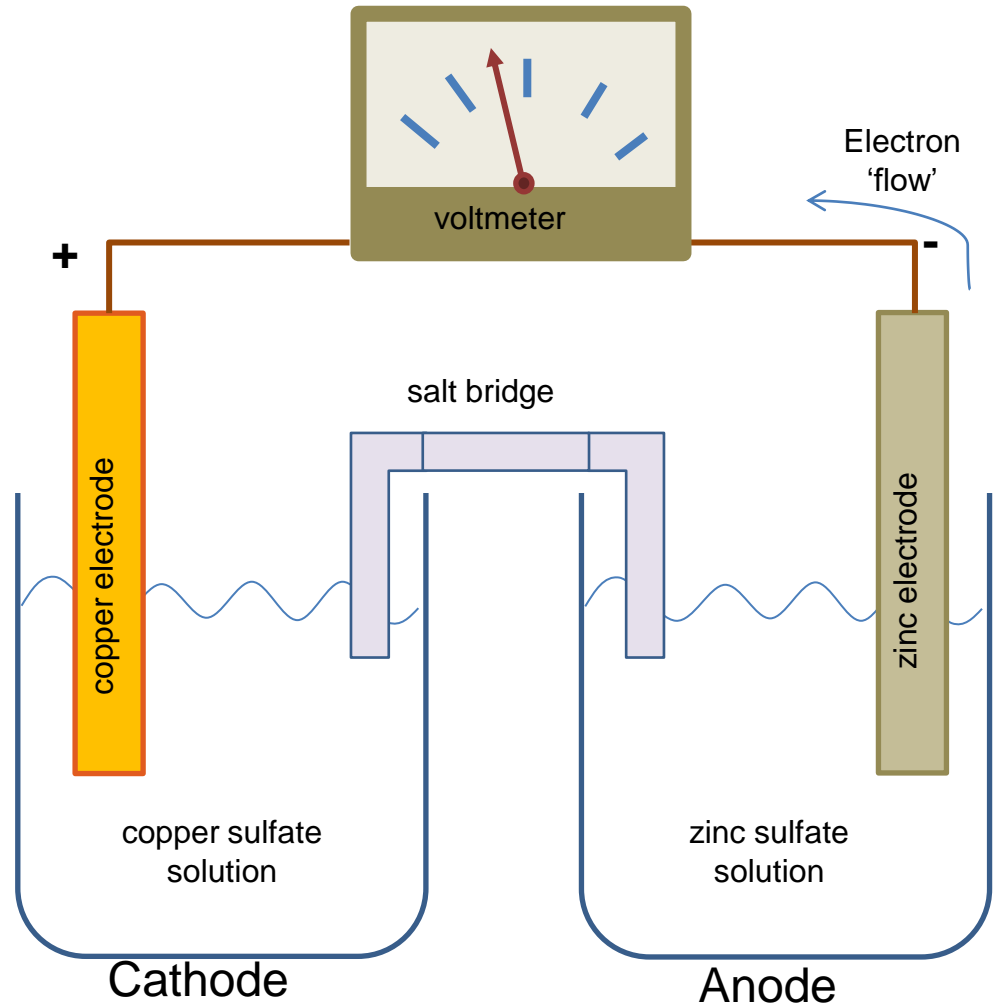
GAS DISCHARGE TUBE, CRT

- Electric 'flow' causes (neon) gas to ionize to plasma
- The ions (+) are driven towards the cathode and the electrons (-) are driven towards the anode
- The initial population of ions and electrons collides with other atoms, ionizing them
- Kinetic energy transferred by the ions to the cathode



GALVANIC CELL, BATTERY

- A





ELECTRICITY AND ALCHEMY



ALCHEMY

- Zosimos of Panopolis: wrote the oldest known books on alchemy come from Ancient Egypt (~ 3000 BC)
 - Most historians associate alchemy to 3500 BCE with the advent of metallurgy
- **Western alchemy** traced to Hellenistic Egypt, where the city of **Alexandria** was center of alchemical knowledge,
 - Retained its pre-eminence through Greek & Roman periods
 - Technology, religion, mythology, and Hellenistic philosophy, co-existed and combined to form the alchemy of the West
- They wrote in Greek, lived in Egypt under Roman rule
 - Many writings were lost when Roman emperor Diocletian ordered alchemical books burned 292AD
- Khalid Ibn Yazid: brought it to the Islamic world
 - Translation and preservation of Greek alchemical texts 8th C
 - From Arabic word *al-kīmiyā'*

ALCHEMY HISTORY

- Hermes Trismegistus: 42 books
 - Covered all knowledge fields with alchemy
 - St. Augustine affirmed this in the 4th C
- All **things** in the universe were formed from only from only four elements: earth, air, water, and fire
 - Aristotle: each element belongs to a sphere to which it will return if left undisturbed
 - These four elements are **qualitative** aspects of matter
- Persia and India: physician Abū Rayhān Bīrūnī, 11th C
 - Alchemy in Sanskrit: Rasayāna for creation of divine body
 - In Persian: Rasavātām means the art of obtaining and manipulating Rasa: **mercury**, also juice/nectar



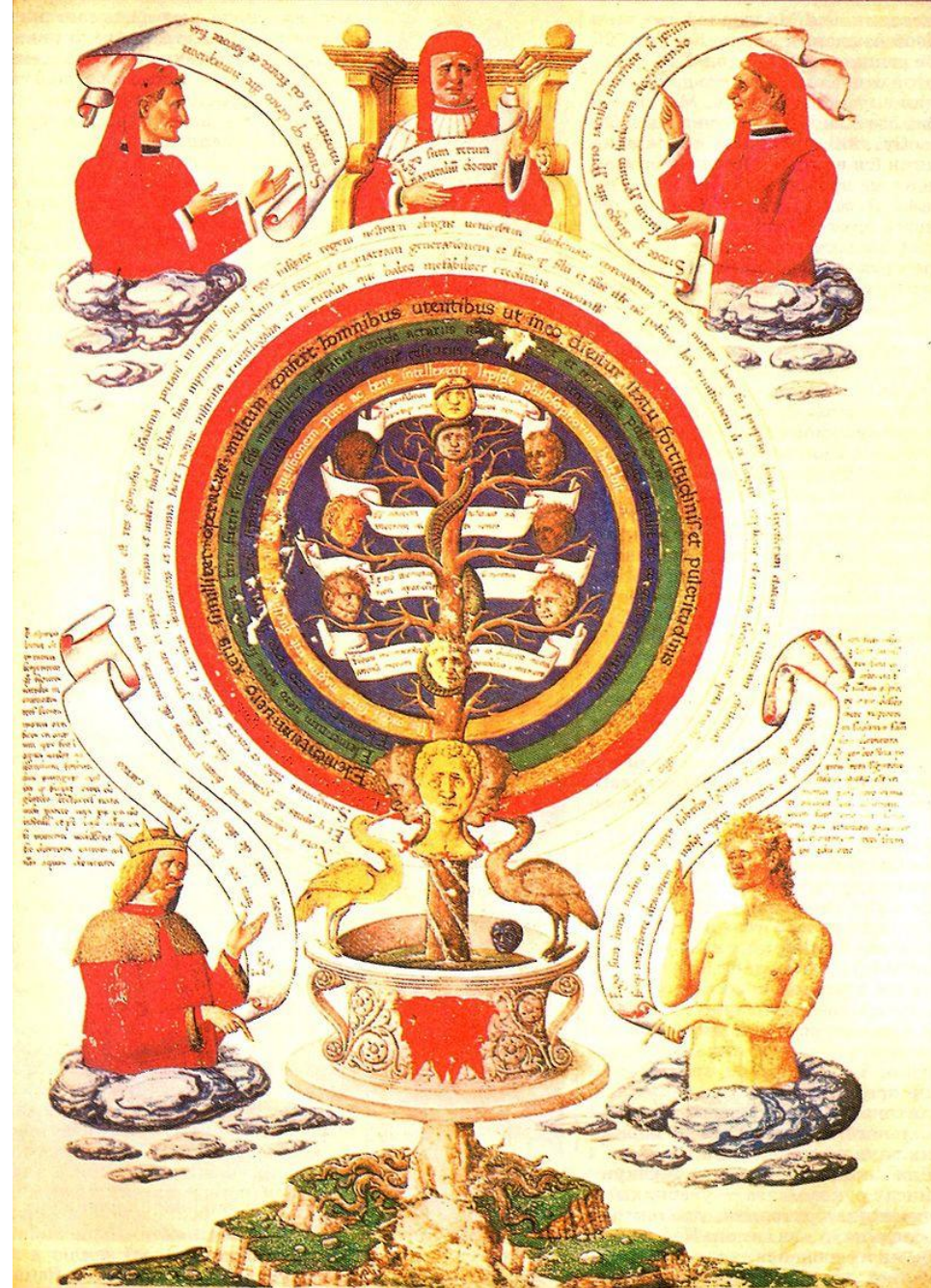


FLOWERING WITHIN ISLAM: 8TH & 9TH C

- Jābir ibn Hayyān (Geber), father of chemistry, moved field from mystical to scientific method, e.g. acids
- Origin of the atomic particle (corpuscular) theory
 - All physical bodies possess an inner and outer layer of minute particles or corpuscles
- Three Principles:
 1. Sulfur: flammability or combustion
 2. Mercury: volatility and stability
 3. Salt: solidity
- Historian Paul Krauss credit Geber with making field intelligible calling Greek Alchemy “unintelligible nonsense which refuses any interpretation”

16TH C EUROPE

- Alchemic treatise of Ramon Llull, 16th C
- Paracelsus: medicine
- John Dee, 16th C: Alchemy: terrestrial astronomy in line with Hermes Trismegist “*As above so below*”
- 4 winds, tree of K, bull + scull: body, dual birds: etheric, three heads: astral, judge: ego





GOLD AND THE PHILOSOPHER'S STONE

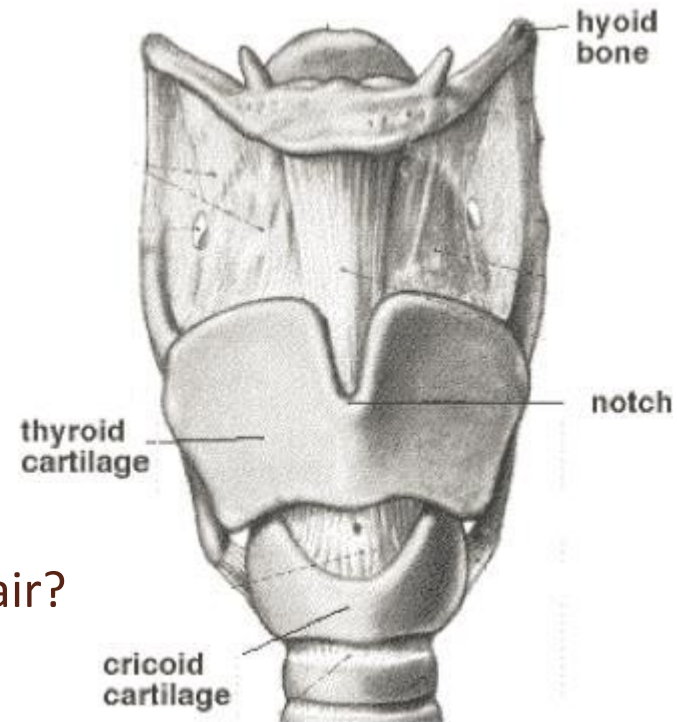


HOMEOPATHY

- Quality can be passed through water

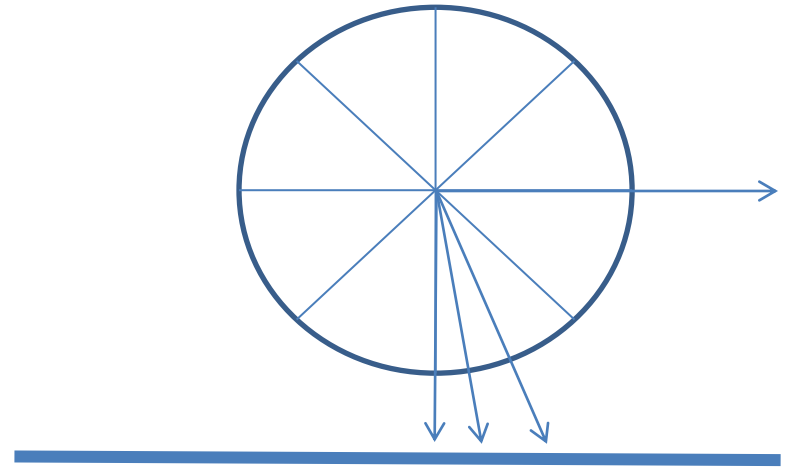
PROPAGATION THROUGH THE SPOKEN WORD

- Will we have physical bodies then?
 - Will our bodies be robots?
- What will the larynx be?
 - How will we speak? Vibrations in the air?
- Need for vibratory physics
 - Resonance
- 'Physics' of the ethers & the etheric body
- Sexual energy transformed
 - Ability to sustain in realm of pure thought



FURTHER RESEARCH

- Projective Geometry
 - Point
 - Plane



IT'S NOT THE WHAT BUT THE HOW

- K-8 Waldorf Schools “reject” TV and Computers
 - ❖ How about above grade 8?
 - ❖ Dose this mean Anthroposophists = Luddites?
 - ❖ Aversion as compelling as lust
- What does it mean to be a modern day Rosicrucian? Materialists?
- John Davy’s question about vocation – *“who will save it?”*
 - ❖ Who will make the decisions regarding **the how?**
 - ❖ Only Materialists?
- *“Technology harbors within itself the growth of its saving power”* – Heidegger





THE CHALLENGE OF TECHNOLOGY

From Liviu Plesoianu's www.joinavatar.com

Human

- Social Reality
- Free will
- Human Solidarity
- Share bread
- Humanology
- Universal brotherhood

Cyborg

- Virtual Reality
- Controlled existence
- Cyborg singularity
- Share post
- Technology
- Universal war

Are these really the only choices?



CONSCIOUSNESS SOUL WORKOUT

- Face-to-face frequency, skills, depth
 - Hide behind one's avatar, one's internet persona
 - Setting up a false image for dating/work purposes
 - No daytime 'mirrors' to guide our own development
- How have your social interactions changed? 10 yrs.
 - Empathy, resonate with joy/struggles, soul sharing
- Has your emotional response changed over 10 yrs?
 - To music, landscape, book, story, drama
- Group soul is gone, individualism reigns, connecting
 - For egoism or for joy of working together

K-8 WALDORF EDUCATION & TECHNOLOGY

- e.g. [Forest Kindergarten](#) at the Waldorf School
 - Connects Children With Nature for Innovative Learning
- Children between the ages of 3 ½ and 6 years old spend three hours a day outside year round no matter the weather conditions
- Rhythms, imagination, art, nature, will, responsibility
- **No TV, no adult technology**
 - What about electricity?
 - After grade 8?
- Reflect on Anthroposophy?





ONE SOWS, ANOTHER REAPS

- What we plant now in our inner life, in our moral deeds – that is what those in the future will reap
- As Old Moon developed wisdom to embed in Earth so shall we develop love with freedom to embed in Jupiter
- Forgive us our short-comings (debts) as we forgive our short-comers (debtors)
- We can no longer expect a humanized world will be given to us if we just quietly exist with Nature
 - Ahriman will not allow it
- We must *actively* make a world worthy of our humanity
 - With enthusiasm, with moral technique



OUR BODIES, OUR SELVES

- How much of our body will be prosthetic by 6th M?
- Will we be born in artificial wombs?
- Or made “whole” as an adult?
 - Will childhood be necessary?
- Can our lowest body be our etheric?
 - What happens to our desires, our lower chakras?
- What is meant by the descent of the astral (6th Ep)?
- Relationship of mechanical occultism to prosthetics
 - Moral technology?
 - Only my will should move my prosthetic limb



THE ROLE OF TECHNOLOGY IN HUMAN EVOLUTION, PART 3

Exploring The Western Path

*NYC Branch
Andrew Linnell*

jandrewlinnell@yahoo.com

www.thechristianmysteries.com

4/29/2016





SCHEDULE

- 10:00-10:30 Social time, tea/coffee
- 10:30-11:30 Legends; Hephaestus; preparations for our time
- 11:30-12:30 Electricity & evil; EMR; sensitivity & safety; magnetism
- 12:30-01:30 Lunch (BYO)
- **01:30-02:30 Resonance, prosthetics, robotics, vibrations, and life**
- 02:30-03:00 Break tea/coffee
- 03:00-04:00 Artificial intelligence, artificial soul; consciousness soul development, a path to “future Jupiter”
- 04:00-04:15 Concluding remarks

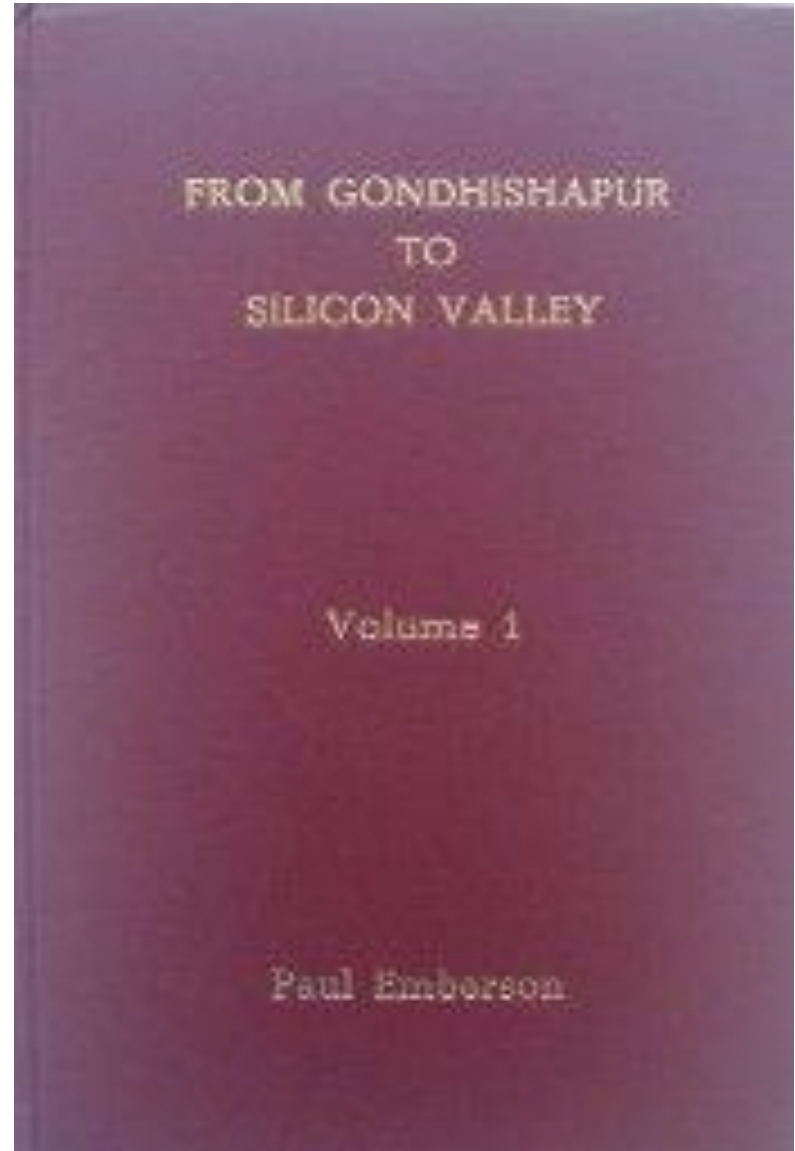
Human attention requires a oneness – A. Linnell



In the Age of the Consciousness Soul
**RESONANCE, ROBOTICS,
VIBRATIONS, AND LIFE**

ONE PERSPECTIVE

- “One of the most wide-spread delusions of our time is that binary computers were developed by human beings to serve mankind. This is not the case. **Binary computers were developed by the ahrimanic double in man, to serve Sorat and his hosts.** Man was but the instrument of the double's activity. Only ahrimanic beings have a comprehensive grasp of what is happening in computer technology. Men are lulled to sleep by visions of knowledge and power.”
- “Computers will physically be semi-living beings ... Indeed, we may say **this incarnation of Ahriman is the incarnation of the Binary Beast.**”





SPIRITS OF BIRTH AND DEATH

- 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 -- *Leonardo da Vinci, His Spiritual and Intellectual Greatness At the Turning Point of the New Age*, Rudolf Steiner, Berlin, February 13, 1913, GA 62



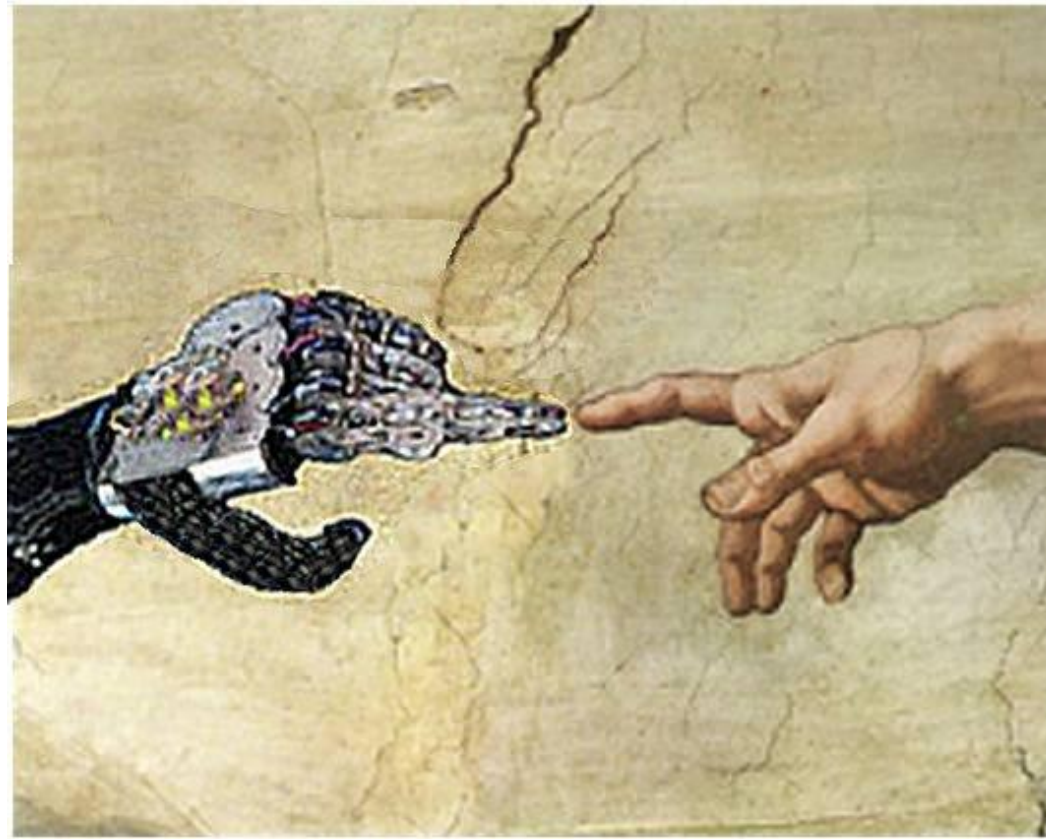
MODERN TECHNOLOGY AND THE ROLE OF EVIL

- 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 fifth post-Atlantean epoch 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 them and what lives and moves in the very 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
- 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

spirit

soul

life



END LECTURE 4



SCHEDULE

April 28, 2016 Lecture 1

- 19:30 – 21:00 Merging with Machines – The Path to Jupiter?

April 29, 2016 Lecture 2

- 19:00 – 21:00 Sexuality and Technology – Preparations for the Remaining Post-Atlantean Ages

April 30, 2016 Workshop

- 09:30-10:00 Registration, social time, tea/coffee
- 10:00-11:30 Sexbots; Hephaestus; preparations for our time
- 11:30-12:30 Experiencing Rhythm Through Eurythmy: In Tune With Sound, Soul, And Creating
- 12:30-01:30 Lunch (BYO) together
- 01:30-03:00 Electricity & evil, EMR, sensitivity & safety, resonance, rhythms, robotics, and life
- 03:00-03:30 Break tea/coffee
- 03:30-04:00 **Eurythmy exercises and tools for balancing technical work**
- 04:00-05:00 Artificial intelligence, artificial soul; consciousness soul development, a path to “future Jupiter” and concluding remarks



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QUESTIONS?


**AS ANGELS PERMEATED EARTH WITH WISDOM
FROM THE KYRIOTETES, WHAT BEINGS WILL WE
ASSIST TO BUILD A JUPITER PERMEATED BY
LOVE?**

And, thank you for sharing your insights!



DEALING WITH DEMONIC MAGIC


- Now, bear in mind what I recently explained as something that will happen but which is at present only in its beginnings; that is, that delicate vibrations will accumulate and tremendous effects will thus be produced.
 - Thank God, it has not yet been achieved!
- But the beginning lies in the fact that the **movement of the sun and the planets is copied**. Since the movements of the sun and the planets possess a profound significance for our earth when they radiate inward, do you believe that they possess no significance when we copy them here in miniature and cause them to radiate outward again into cosmic space? What then happens has profound significance for the cosmos. Here you see directly how even those vibrations I spoke of are now added to the demon through which he can unfold his activity outward into cosmic space.
 - Of course, no one should suppose that what I have just said indicates that steam engines should be done away with. In that case one would have also to do away with a good deal more because they are by no means the most demoniacal.
- **Whenever electricity is used — and much else besides — there is far more of demon magic because this operates with entirely different forces having an entirely different significance for the cosmos.**
- Obviously, anyone who understands spiritual science will realize quite clearly that **these things should not be done away with**, that we cannot be reactionary or conservative in the sense that we must be opposed to progress.
- **Indeed, the demon magic signifies progress, and the earth will continue to make more and more progress.**
 - Developments in the world soon will make it possible to produce immense effects ranging outward into the universe. **Doing away with these things or condemning them is not what we are after because they are obviously justified.**
- But what must be borne in mind is that since they must appear on the one side in the course of human progress, **counter forces must be created on the other to reestablish a balance**. Counter forces must be created. They must bring about a balance that can be created only if humanity again comes to understand the Christ principle, if humanity finds the way to Christ.
- For a time, humanity has been led away from the Christ. Even those who call themselves the official representatives of the Christ seek an angel instead of Him. But the way the soul must take to the Christ must be found. Just as we work all the way to the physical stars and into the cosmos by means of the demons of the machines, **so must we find the way spiritually into the worlds in which human beings live between death and a new birth where the beings of the higher hierarchies are to be found**.
- What I am now alluding to is connected with what I have already explained. Human beings enter more and more into a vocational karma on the one side, as I have explained, and from the other **this vocational karma must be counteracted by an understanding of the spiritual world, which in turn can prepare them to find a way to Christ**.
 - R. Steiner, GA172:196f (*The Karma of Vocation*) Dornach, 26.11.1916

- 
- “Certain fundamental things that are influencing us still today were known already to the old initiates who knew much more than that about which they spoke to the people
 - But they [the initiates] said to themselves the following: if we simply put technically together something that combines natural forces, so that we have before us something machine-like, then we get something which will get atomized at the end of Earth’s existence, something whose destruction the gods themselves desire
 - For every initiate knows that those gods to whom one looked up in the old Mysteries, with which one communicated in the ancient Mysteries, with whom one of course can communicate still today, that these gods hate nothing more than for example a locomotive or a car! That's something terrible for them
 - For these gods say: We have had to put up with a lot that has originated from Ahriman, in particular the fact that he has formed the earth in the machine-like manner, and now the human beings are constructing things after Ahriman’s fashion and adding to it!
 - Our work is already big enough for what we must destroy if we had only the works of Ahriman to deal with; but now we have added to all this all these steam engines, these electrical machines and all that stuff”



WHAT NEEDS TO BE DONE

- “With this kind of science we can only learn about the part of man's being which has a significance from the time of the separation of the moon until its return, when the shadowy thoughts of modern times will become spidery creatures having a concrete existence.
- A form of knowledge must develop which produces quite a different conception of the being of man, and it can be developed only by raising science to the level of artistic perception. We shall realize then that science as it is today is capable of grasping only the mineral nature, whether in the mineral kingdom itself or in the kingdoms of plant, animal and man. Even when applied to the plant kingdom, science must become a form of art, and still more so in the case of the animal kingdom. To think that the form and structure of an animal can be understood by the means employed by anatomists and physiologists is nonsense. And so long as we fail to realize that it is nonsense, the shadowy intellect cannot be transformed into a living, spiritual comprehension of the world. What is taught to young students today in so abstract a form in the universities must be transformed and must lead to a really artistic conception of the world. For the world of Nature itself creates as an artist. And until we realize that Nature is a world of creative art which can be understood only through artistic feeling, no healing will come into our picture of the world. ... they are taught only about the mineral structure in man, about that part of his being which will one day be woven into the network of spider-like creatures extending over the earth. ... His birth from woman began with the departure of the moon, but this physical form of birth is only a passing episode in the great sweep of cosmic evolution and will be replaced by another. ... The human will is threatened with being deprived of spiritual impulses and with becoming involved in the spidery web that will creep over the earth. There are men in existence who imagine that they will gain their ends by promoting their own spiritual development and leaving the rest of their fellow-beings in a state of ignorance. But the vast majority live in complete unawareness of the terrible destiny that awaits them if they lend themselves to what an ancient form of spiritual knowledge called the “sixteen paths to corruption.” For just as there are many ways in which the shadowy intellect may be directed to the impulses and knowledge coming from the spiritual world, so naturally there are many ways in which varieties of the shadowy intellect will be able to unite with the spider-beings who will spin their web over the earth in times to come. Intellect will then be objectivised in the very limbs and tentacles of these spidery creatures, who in all their wonderful inter-weavings and caduceus-like convolutions will present an amazing network of intricate forms.
- It is only by developing an inner understanding for what is truly artistic that man will be able to understand the realm that is higher than mineral existence — that realm of which we see an expression in the actual shaping and form of the surfaces of things in the world.”
- - Source: R. Steiner, *A Picture of Earth-Evolution in the Future*, Dornach, 13May1921, GA204

- 
- “To cultivate Spiritual Science means to open the doors to those influences from beyond the earth which have been seeking to come down to the earth since the last third of the nineteenth century. The cultivation of Spiritual Science is in very truth a cosmic event of which we ought to be fully conscious.
 - And so we survey the whole span of time from the separation until the return of the moon. The moon which, as we say, reflects the sunlight back to us, is in truth deeply connected with our existence. It separated itself from the earth in order that man might become a free being. But this period of time must be utilised by man in such a way that he does not prepare the material which, with the re-entry of the moon into the earth-sphere, would combine with the moon-substance to produce that new kingdom of which I have tried to give you a graphic picture.
 - Now and then there arises in human beings of our time a kind of foreboding of what will come about in the future. I do not know what meaning has been read into the chapter in *Thus Spake Zarathustra*, where Nietzsche writes of the ‘ugliest man’ in the ‘valley of death.’ It is a tragic and moving passage. Nietzsche, of course, had no concrete perception of the valley of death into which existence will be transformed when the spidery brood of which I have spoken spreads over the earth. Nevertheless, in the picture of this valley of death in Nietzsche's imagination there was a subconscious vision of the future, and within this valley of death he placed the figure of the ‘ugliest man.’ It was a kind of foreboding of what will happen if men continue to cultivate shadowy thoughts. For their destiny then will be that in hideous shape they will be caught up by the forces of the moon-existence as it comes down into the sphere of the earth and will become one with the brood of spidery creatures of which I have been speaking.”
 - - Source: R. Steiner, *A Picture of Earth-Evolution in the Future*, Dornach, 13May1921, GA204



SCIENCE IS CHANGING

David Bohm, Physicist, 1917-1992

- “So one begins to wonder what is going to happen to the human race. Technology keeps on advancing with greater and greater power, either for good or for destruction. I'm saying that the source is basically in thought. Many people would think that such a statement is crazy, because thought is the one thing we have with which to solve our problems. That's part of our tradition. Yet it looks as if the thing we use to solve our problems with is the source of our problems.”

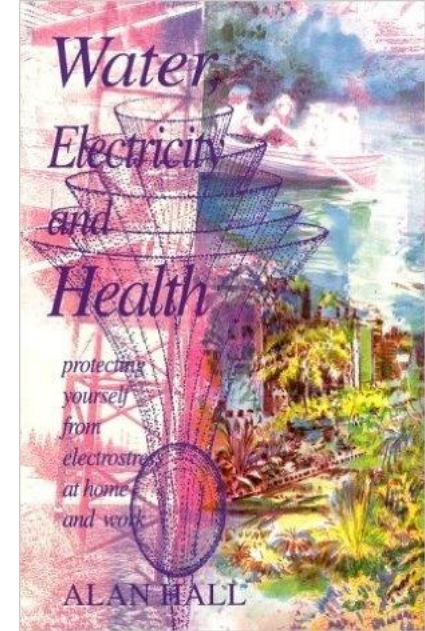


MATERIALISM IN SCIENCE CRACKING

- Physics: onlooker and consciousness
 - Thomas Kuhn, David Bohm, Max Plank, Albert Einstein
- Biochemistry: Rupert Sheldrake, Christian de Duve
- Biology: epigenetics, what controls ‘biological machines’
 - Richard Lewenton, Francis Crick, Richard Dawkins
 - Epigenetics, Protein Folding Problem, Bruce Lipton’s *The Biology of Belief*
 - Consciousness can affect how one’s genome expresses itself
 - Life is not in matter, not in genes
- Medicine: brain-mind problem
 - George Wald, John Eccles, Roger Sperry
- Computing: What is *not* Artificial, what is software?
- Psychology: Personal and Transpersonal Self

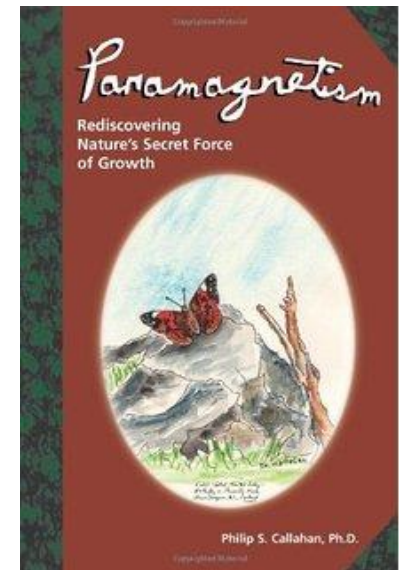
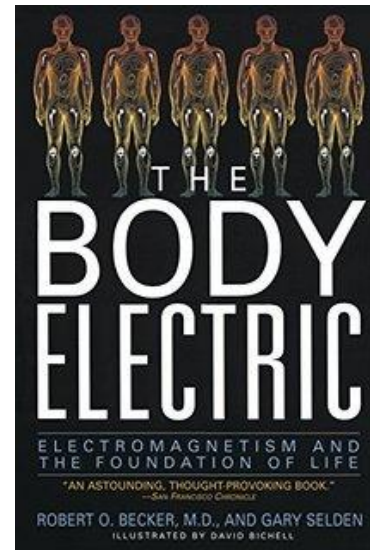
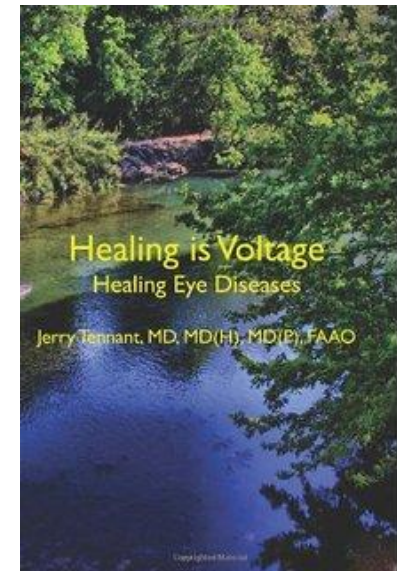
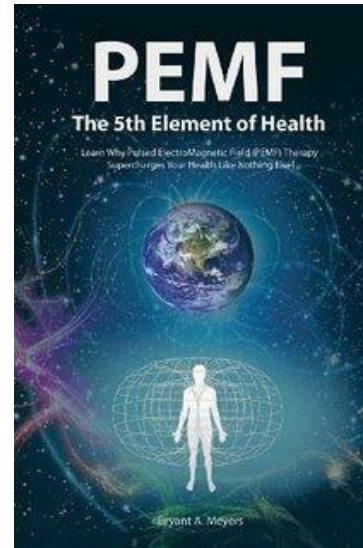
ROLE OF WATER

- Rainbows
- Water as major component of
 - Blood
 - Cerebral-spinal fluid
 - Lymph
 - Dr. Luc Montagnier, Nobel Laureate, *Nature*, YouTube [video](#)
 - How water carries a memory, DNA's weak EM emanations
 - Dr. Mae-Wan Ho, Institute of Science in Society [website](#)
 - [Homeopathy](#), [EM Signals from HIV](#)
- All water is affected by electromagnetic frequencies
- The body's % water = % water on earth's surface



GROWING AWARENESS (?)

- Pulsed Electro-magnetic Fields
- Healing is Voltage
- The Body Electric: Electromagnetism and the Foundation of Life
- Paramagnetism: Rediscovering Nature's Secret Force of Growth



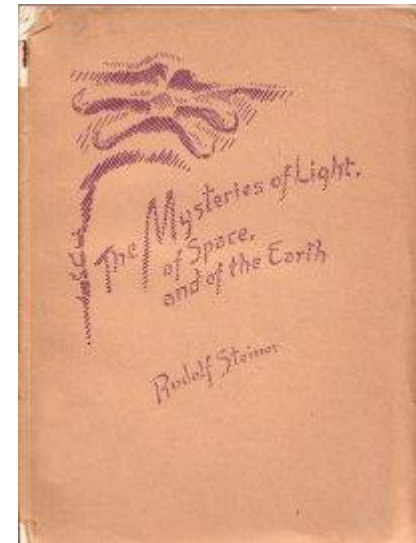
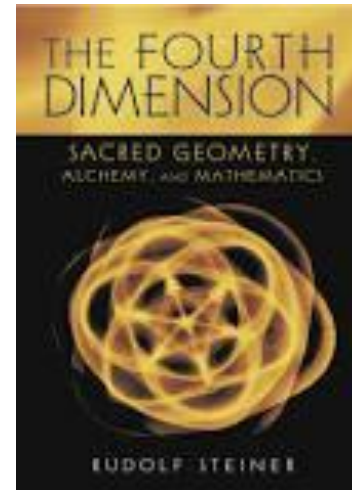
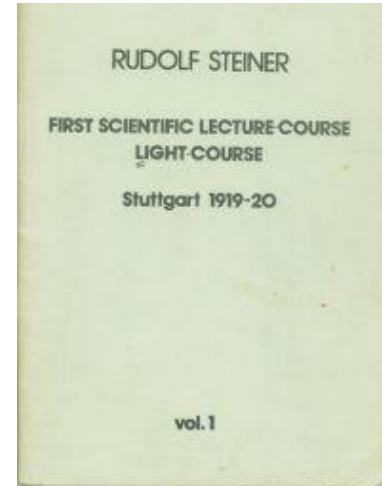


OSCILLATION AND RESONANCE

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

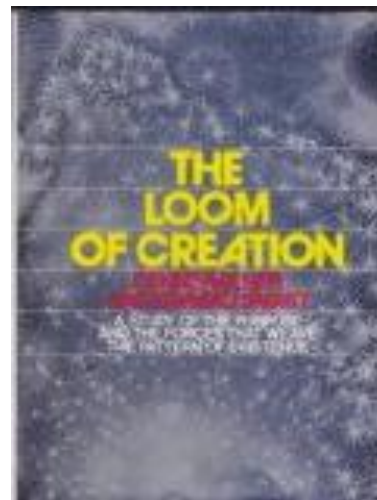
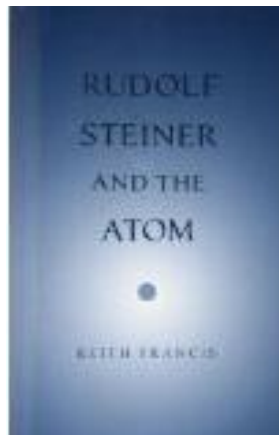
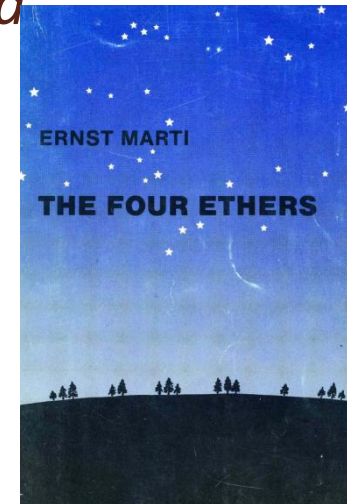
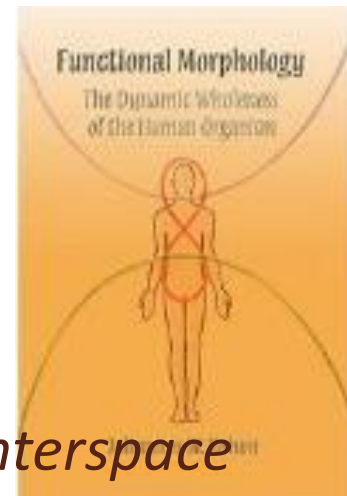
SCIENCE LECTURE COURSES

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



BOOKS FOR FURTHER STUDY

- Johannes W. Rohen, *Functional Morphology*
- Nick Thomas, *Science Between Space and Counterspace*
- Gunther Wachsmuth, *The Evolution of Mankind*
- Ernst Lehrs, *Man or Matter*
- Ernst Marti, *The Four Ethers*
- *The Schiller File*
- Milner & Smart





EMR SENSITIVITY

Extra Material



ORGANIZATIONS DEALING WITH EMR

- April 2012: European Parliament Declaration
 - Calls on WHO to recognize EHS as a medical condition
- American Academy of Environmental Medicine
- Russian National Committee on Non-ionising Radiation Protection
- German Federal Government
- Council of Europe and EU Environmental Agency
- International Commission for Electromagnetic safety



ELECTROMAGNETIC HYPERSENSITIVITY

Symptoms (*Bevington 2010*):

- General: fatigue, headache, sleep disturbances, flu-like symptoms
- Heart & Circulation: chest pains, shortness of breath, blood pressure changes, arrhythmias, nosebleeds, cold extremities
- Brain: dizziness, confusion, lack of concentration, memory impairment, dyslexia, difficulty learning, mood swings



EHS ADDITIONAL SYMPTOMS

- Ears: earaches, tinnitus, imbalance
- Eyes: dry and gritty, eyelid tics, irritation, pressure behind eyes
- Skin: rash, crawling sensations, dry skin, irritation, lumps, itchy, brown 'sun spots'
- Muscles: numbness, weakness, restless legs, spasms/tremors, pain in jaw and teeth
- Sensitivities: chemical, light, noise &/or smell
 - Impact on liver and immune system



CHRONIC HEALTH EFFECTS

- Childhood Leukaemia (*Wertheimer & Leeper, 1979; BioInitiative Report, 2007; Ahlbom et al, 2000, ICNIRP, 2001*)
- Breast cancer (*Blackman et al, 2001; Girgert et al, 2010*)
- Brain tumors – gliomas & acoustic neuromas (*IARC, 2011 and Hardell et al 2009*)
- Neurodegenerative diseases: ALS, Alzheimers (*BioInitiative Report, 2007; Philips et al, 2006*)



DID YOU KNOW?

- Brain cancer incidence rose by 35% between 2000 and 2008 in NSW and ACT (*Dobes et al, 2011*)
- Recognition of EHS would ensure full compliance with the UN Convention on the Rights of Persons with Disabilities, 2007 (*Bevington, 2010*)



WHO DOES EHS AFFECT?

- History of high and/or long term exposure
- Exposure to chemicals, esp. pesticides
- Heavy metals in the body – lead, mercury (amalgam fillings, fish, fungicides, CFL, vaccines, more)
- Surgical metal implants
- Epigenetic factors: atopic (hayfever, allergies)
- Children, pregnant women, elderly, weak immune
- Source: *Bevington, 2010*



SOURCES OF EMR

- External

- Mobile phone tower
- Radio and TV towers
- Smart meters
- Routers
- Cordless phones
- Mobile phone
- Power lines
- Substations

- Internal

- Smart meters
- Wi-Fi, Wi-Max
- Mobile/cell phone
- Cordless phone
- Wireless devices
 - Baby monitor
 - Security system
 - Appliances
- Wiring, fluorescent lights