



# THE ROLE OF TECHNOLOGY IN HUMAN EVOLUTION, PART 2

Exploring The Western Path

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[Technology in Human Evolution](#)



# 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, 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



# MODERN SCIENCES AND THE ETERNAL

- “The sciences of physics, chemistry and biology which are pursued nowadays provide mankind with a vast amount of popular information.
- What they actually do is explain how sense observation, interpreted by the intellect, sees the world.
- But the time has come when mankind must rediscover what lies behind the knowledge provided by external observation and intellectual interpretation. ...
- All the magnificent achievements of these sciences are related only to what is transitory.
- It is essential that knowledge is attained of that which endures beyond the earth.”
- R. Steiner, *The Elemental World and the Future of Mankind*, 28May1922, GA 212



“Morality is no mere worked-out thought; if permeated with reality it exists in the present as a germ for later external realities.” - Source: <http://wn.rsarchive.org/GA/GA0175/19170227p01.html>

~ Rudolf Steiner



Disney image from [schmoesknow.com](http://schmoesknow.com)

Rhythm, Vibrations

# ELECTRICITY AND EVIL



# ORIGIN OF EVIL – GA055

- Greek mythology: gods received nectar and ambrosia from mortals
  - Both signify love; love is created within the human race
- And the race of the gods breathes in love as nourishment
  - Love which is created by man is food to the gods
- “That is much more real than — say — electricity”
- Love appears to begin with as sex-love and evolves up to the highest divine love
  - But all love, lower and higher, is breath of the gods
- *‘So, how come there is evil?’*
- Wisdom underlies the world and is the guide of love that evolves
  - Wisdom permeated by love is the beginning of earthly evolution
- Just as all wisdom is born out of error, so does love struggle to the heights only out of error, only out of conflict
  - As conflict exists on the earth so was error on Old Moon
  - Luciferic beings failed to rise to the height of wisdom
  - Today Luciferic beings approach the lower, unevolved element of love thereby forming the bridge between wisdom and love
  - Thus, impersonal wisdom mingles with personal love: self-love & self consciousness
  - As love is a human instinct today so was wisdom a human instinct on Old Moon

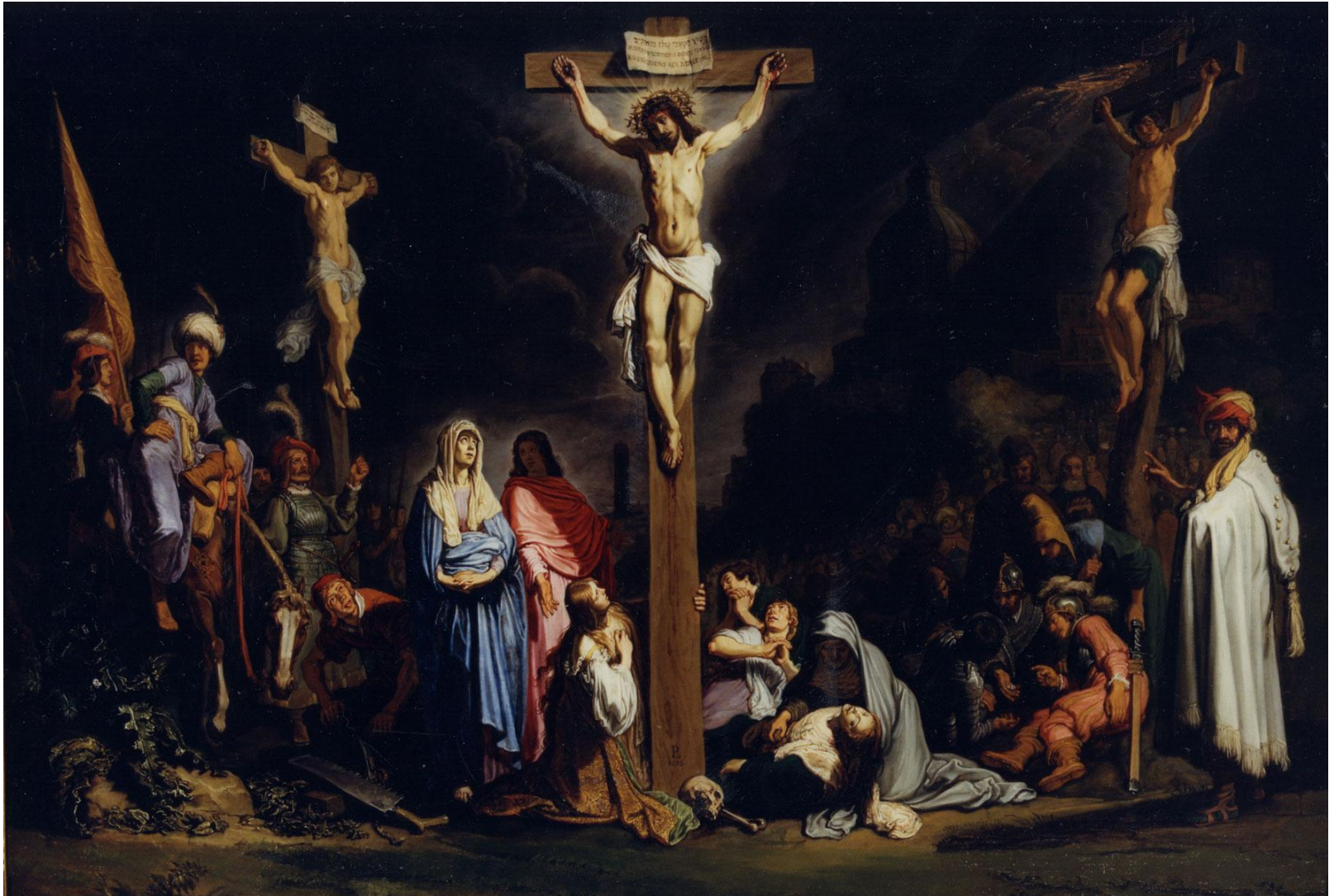


# A WORLD WITHOUT EVIL

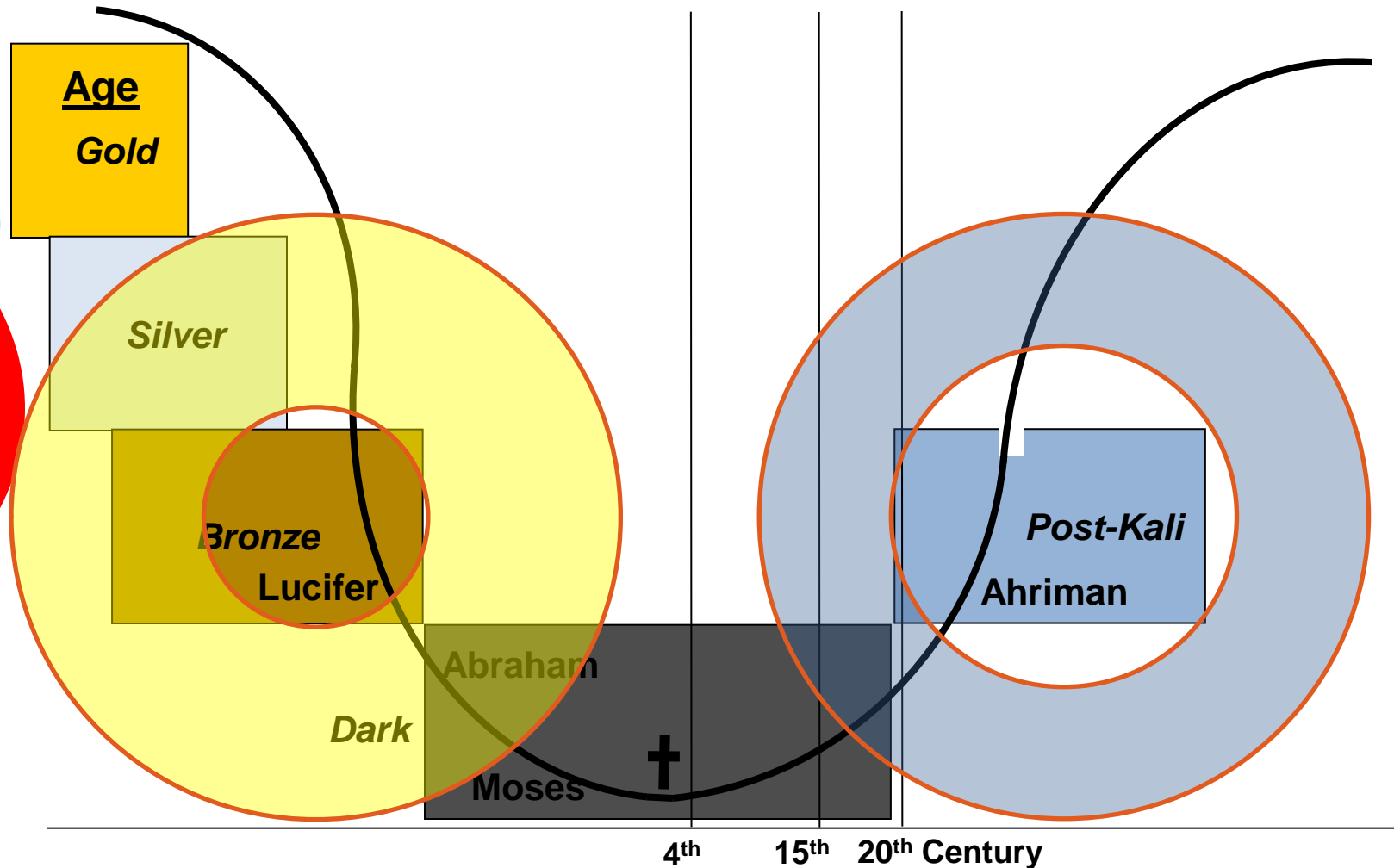
- Without evil there could be no self-feeling, no free choice of good
  - Through Lucifer we were offered freedom
- In order to be able to choose good, man must also have the bad before him
  - It dwells within him as the force of self-love that can become the love of all
- Freedom and evil have the same original source
- Lucifer is light bearer and makes man humanly enthusiastic for the divine
  - Elohim are light itself
- Where light of wisdom is kindled in man, there has Lucifer been active
  - Lucifer brings a shrunken, blemished wisdom that can penetrate into man
  - Lucifer mixes in the leaven of the old dough into the new bread of earth
  - Bearer of external human science which stands in the service of egotism
- Pupils of occultism: selflessness in regards to knowledge is demanded
- Evil is good when in its place but, with us, it is no longer good
  - Evil is good out of place
- The absolute good of a prior planet always brings evil to the next planet
  - Evil is a necessary course of evolution
- R. Steiner, GA055



# THREE CRUCIFIED, PIETER LASTMAN (1616)



# POST ATLANTEAN HISTORICAL PICTURE PENDULUM







# THE BEINGS WHO BRING ABOUT EVIL

- **Luciferic** – Old Moon – Fallen archangels working as Angels
  - **Luciferic** beings work with the **past** upon the human **astral** body
    - This relates to what was being elaborated on Old Moon
    - **Subjective**: myself and everything with which I identify
- **Ahrimanic** – Old Sun – Fallen Archai working as Archangels
  - **Ahrimanic** beings desire to work in the **etheric** body for their **future**
    - This is the sphere that was being elaborated on Old Sun
    - **Objective**: all that is NOT me
- **Asuric** – Old Saturn – Fallen Spirits of Form working as Archais
  - **Asuric** beings endeavor to penetrate the **physical** body of man
    - Their sphere relates to what was being elaborated on Old Saturn when these beings were at the ‘human stage’ and fell behind
- In these respective bodies these spirits find an opportunity for their own development



# WHEN THEY ENTERED

- **Lucifer:**
  - Lemurian times
  - Human **Astral** body and the nerves and senses
  - Unconscious elaboration of the ego on the Astral body: Sentient Soul
- **Ahriman**
  - Atlantean times
  - Human **Etheric** body
  - Unconscious elaboration by the ego on the Etheric body: Intellectual Soul
- **Asuras**
  - Post-Atlantean (current) times
  - Human **physical** body
  - Unconscious elaboration of the ego on physical body: Consciousness Soul



# AHRIMANIC IMPULSE

- Luciferic impulses sank down gradually into the soul
- Ahrimanic impulse rises up from the solidity of ‘reality’
  - Thinking pushed down to function in our brain (and in machine)
  - Ahriman’s cosmic role has to do with the solid, Earth element
- Ahrimanic impulse grows stronger in modern times
  - It will become increasingly strong in the near future and on into future ages
  - The influence of this Being becomes especially powerful in the 5<sup>th</sup> PACA
- Ahrimanic impulse proceeds from a super-sensible Being different from the Being of Christ or of Lucifer
  - Equally with ‘super-sensible’ one can say ‘subsensible’
    - R. Steiner, *Ahrimanic Deception*, GA 193, 27Oct1919
- Dual America: Holy Experiment & where Ahriman will incarnate



# AHRIMAN'S INCARNATION

- Balances Lucifer's – early in the 3<sup>rd</sup> Millennium
- Incarnation = made flesh : macro + microcosm
  - Macro: plane at infinity + micro: 'zero' point of infinity
  - Recapitulation, ontogeny recapitulates phylogeny, life preceeds
  - Preparation:
    - Outside world “shrinks” to be more solid
    - Inner world becomes more calculable, ponderable, meaningless

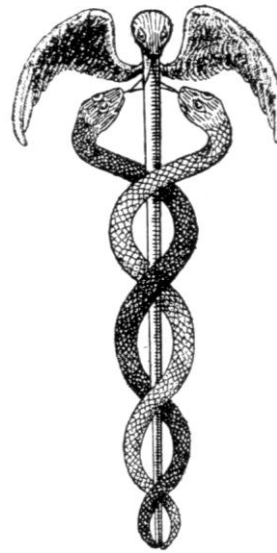
# CALCULABLE AND INCALCULABLE



- **Lucifer** can combine with his own form of being **nothing calculable**
  - His ideal: a cosmic unconditioned action of intelligence and will
  - Role: freedom where it should rightly rule events
    - Without his aid, freedom would never make its way into Man's spiritual and soul life
- **Ahriman** stands as complete opposite the divine spirit-beings
  - Ahriman: cold **Hate of everything expanding in freedom**
  - Ahriman's aim and endeavour is to **make the cosmos a machine**
  - His ideals: Measure, Number and Weight
- **Michael** intervenes: **stands** in the Incalculable **dressing** the balance between the Incalculable and the Calculable that he bears within him as a World-thought received *from his Gods*
  - These Gods are at present purely spiritual beings who bear within themselves perfectly free intelligence and perfectly free will; they
    - Create, in free intelligence and will, a wise insight into **the necessity of the Calculable**
    - Are united in Love and **this Love streams** from them throughout all the universe



# CALCULABLE AND INCALCULABLE



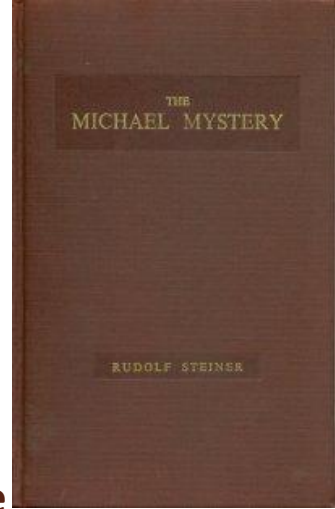
- **Order** was established between Calculable and Incalculable
- Between birth & death, Man has the Calculable ready-laid for his body
  - Groundwork needed to unfold the free Incalculable of his inner, spiritual soul-life
  - Between death and new birth: we exist in the Incalculable
    - We ponder the Calculable
    - Thereby — **out of this Calculable** — one becomes the architect of their next earth-life
- He who comprehends the world as everywhere **Spirit-in-body**, he alone really comprehends it

- Source: *Michael Mystery*, lecture XV, GA026



# BECOMING THE CALCULABLE

- The farther back clairvoyant vision penetrates into the past, the more the Macrocosm is seen in every greater fullness of life
- Life in the remote past ceases all calculability of its life-manifestations
- From this fullness of life Man is gradually separated out
- Macrocosm passes more and more into the **sphere of the Calculable**
  - Therein, however, **the macrocosm slowly dies out**
  - In the same measure as Man, the Microcosm, emerges as an independent being out of the Macrocosm – the Macrocosm died
- The cosmic Present shows an **extinct Macrocosm**
  - But in the process not only Man has arisen; out of the Macrocosm has arisen also the Earth
- In the beginning of the age of the Spiritual Soul, men have accustomed themselves to direct their observation to the physical proportions of the Universe in Space, and to regard primarily its bigness in this respect
  - Accordingly, they speak of the **Earth as a grain of dust** in the midst of this, to physical appearance, so gigantic Universe
  - To the consciousness of the seer, this 'grain of dust' reveals itself as the **first life-seed** of a newly arising Macrocosm; whilst the old Macrocosm can be seen to have died out
  - **It was necessary for it to die and become extinct, in order that Man might separate himself out from it in full Self-consciousness**
- In the present cosmic age, Man takes part in the dead and dying Macrocosm with his Thinking forces, which give him **freedom**; whilst with his Will-forces, whose real being is hid from him, he takes part in the young Macrocosm that is springing up as Earth-born **seed into new life**



# BRIEF HISTORY OF COMPUTING

- 1833: Charles Babbage, mechanical computer
  - Unable to build it because Ahriman not yet present on earth
- 1879: Michael throws down Ahriman to earth
  - He enters human brain-thinking & physical+subnature earth
  - Edison makes first successful lightbulb, (direct vs alternating)
- 1880: Hollerith invents punched card & tabulator – IBM
- 1935: John Atanasoff built first fully electronic computer
  - Autobio: “tormented ... car at high speed ... cold ... alcohol”
- 1945: Mauchly, Eckert, and von Neumann with funds from the military for ballistic calculations – ENIAC
- 1959: Grace Hopper machine-independent programming languages, compilers, COBOL

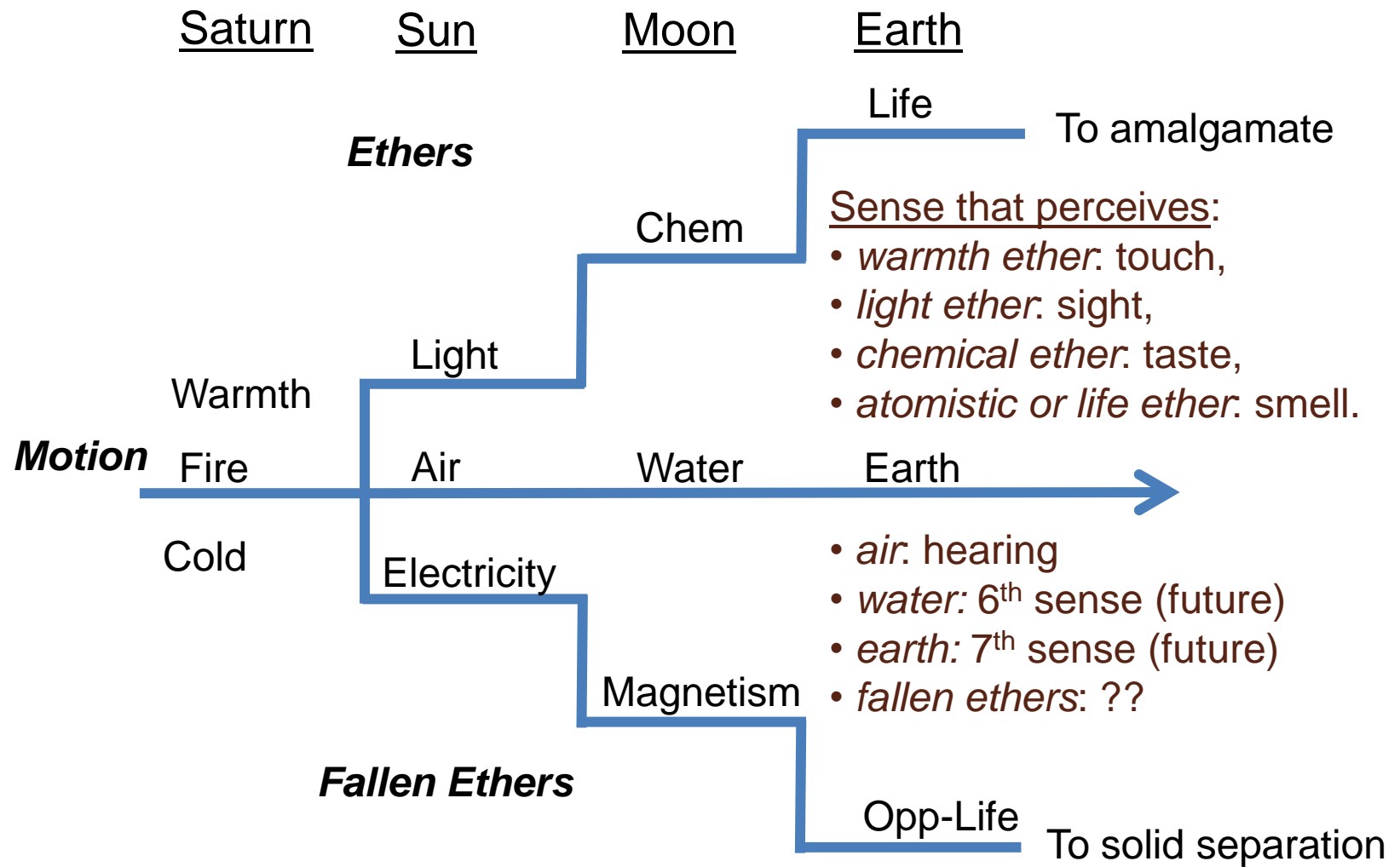


See David Black article in *Anthroposophy in New England*, Christmas, 1982




# COMMENTS

- Offices and labs of science outside of the G
- No technology focus
- Steiner's disappointment with A scientists
  - Schiller file
- What is space; what is time?
  - 3 dimensions of space; how many for time?
- "In the beginning, everything in existence is thought to have occupied a single infinitely dense point, or singularity. Only after this point began to expand in a "Big Bang" did the universe officially begin."
  - <http://phys.org/news/2015-02-big-quantum-equation-universe.html>

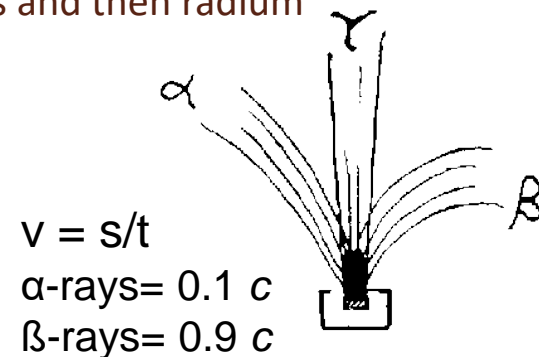





- 
- Asleep, the soul lives in light, and therefore in levity
    - One's will is 'crippled'
  - Awake, it lives in weight, in gravity through the body
    - One's will is active
  - Thus, light and weight are *cosmic* antitheses
  - In light are dying world-thoughts
  - In the forces of weight lie worlds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

# WHAT IS LIGHT?

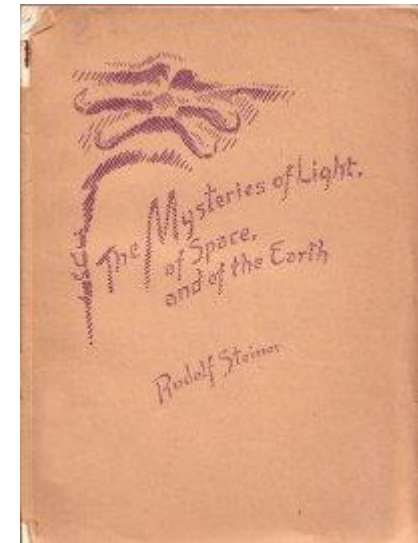
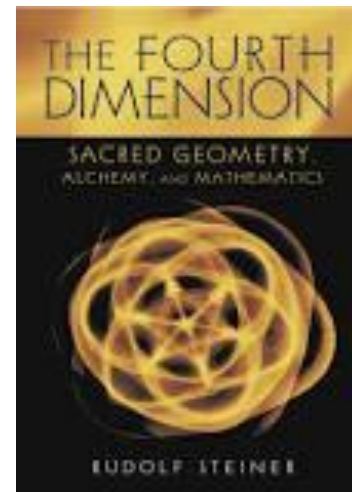
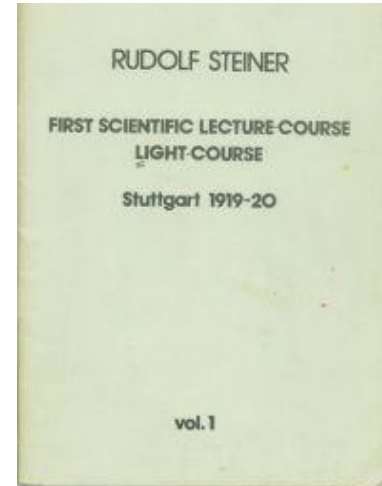
- It spreads out in space, can take effect over distance
  - Electricity similar (e.g. spark, 'current' induced in parallel wire)
  - Waves (?)
    - Wireless transmission
    - Evacuated glass tube – electricity moves through the vacuum
    - Magnet can modify the light's path from the cathode (negative pole)
    - Crookes (and Lehrs) called it "radiant matter"
      - Special material showering 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



- 
- What is it 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

# 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

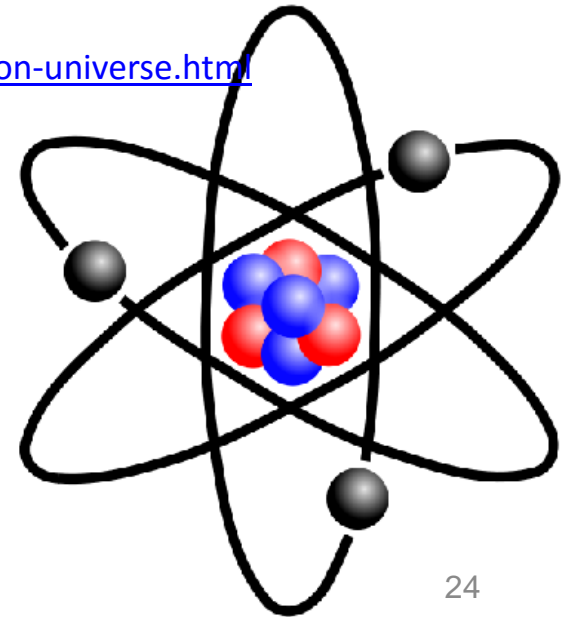
## STUDY OF ELECTRICITY AND MAGNETISM = STUDY OF MATTER

- “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
- *Likewise 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



# 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>



# PERIODIC CHART

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

2, 8, 8, 1, 2


2, 8, 8, 8, 2, 1

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



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

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



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

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



# PHYSICAL PARADOX

- An apparent contradiction in physical descriptions of the universe
- “While many physical paradoxes have accepted resolutions, others defy resolution and may indicate flaws in theory” – Wikipedia
- Twin paradox
- Ladder paradox
- Supplee’s
- Babinet’s
- Gibbs’
- Olber’s





# WHAT IS THE ATOM? STEINER

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



# LIGHT AND ELECTRICITY

- “Complete opposites” – what does this mean?
- Light related to levity
  - Why do we 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



# CONCERNING ELECTRICITY

- “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



# 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 4<sup>th</sup> PACA this problem of birth and death was more connected with the human soul, but during our own epoch, the 5<sup>th</sup> PACA, people will have to struggle with evil in the same elemental way in which they struggled with birth and death during the Atlantean age
  - Particularly through the control of the different forces of Nature, the impulses that lead to evil will send their influences into the world in an immense, gigantic form
- *The Overcoming of Evil*, R. Steiner, Dornach, November 4, 1917, GA 273



# ELECTRICITY AS THE CARRIER OF EVIL

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



# ANTHROPOSOPHY AND ELECTRICITY

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

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





# MODERN TECHNOLOGY & ROLE OF EVIL

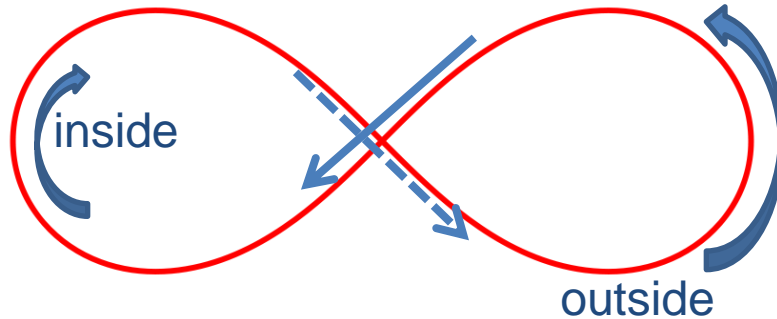
- “Wherever electricity is used, there is demon magic
  - Demon magic signifies progress – we should not oppose progress”
    - R. Steiner, Karma of Vocation, lecture 9, GA 172
- In the 5<sup>th</sup> PACA, illusion, Maya itself, will be seized upon by Evil
  - It will all be permeated by cleverness,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



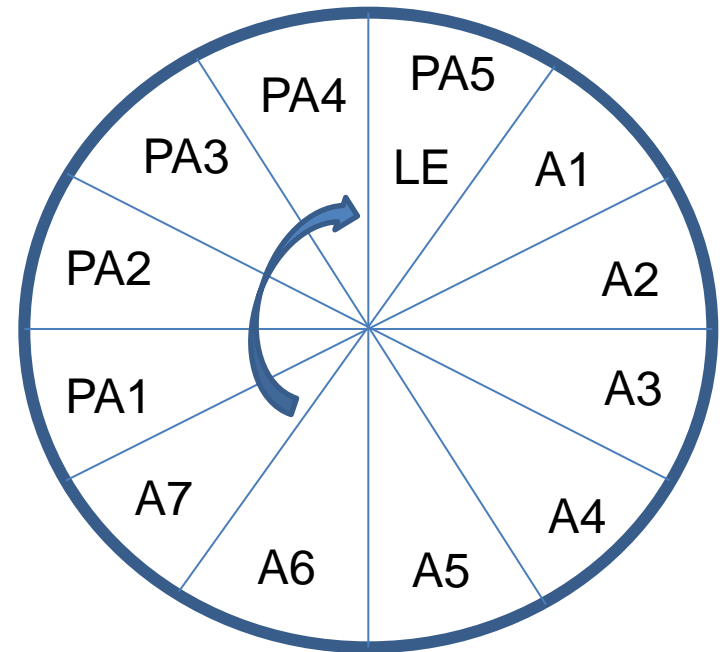
# WHAT WILL BE OUR FUTURE WORLD?

- **“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

# 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 18<sup>th</sup> 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

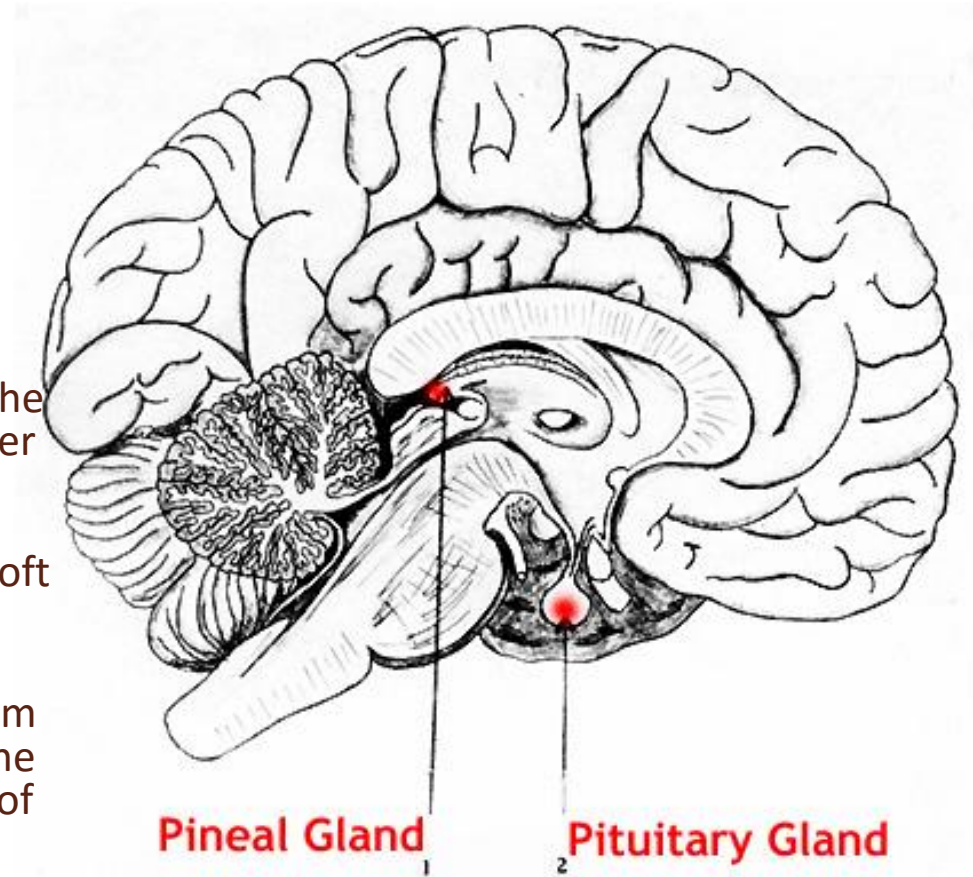


# CREATION

- 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, ...

# 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

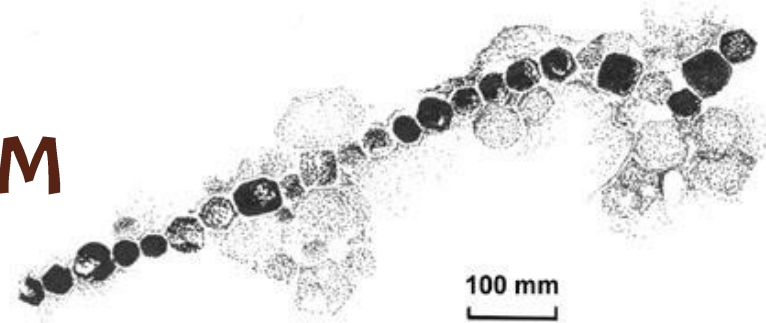




# SENSITIVITY FOR ELECTRO-MAGNETISM

- 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?

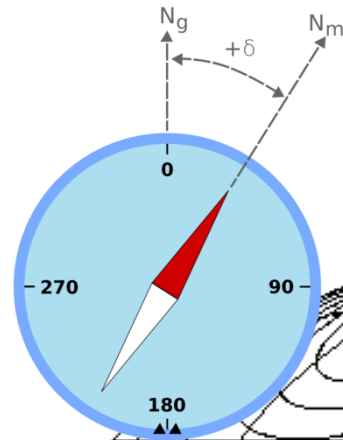
# BIO-ELECTROMAGNETISM



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

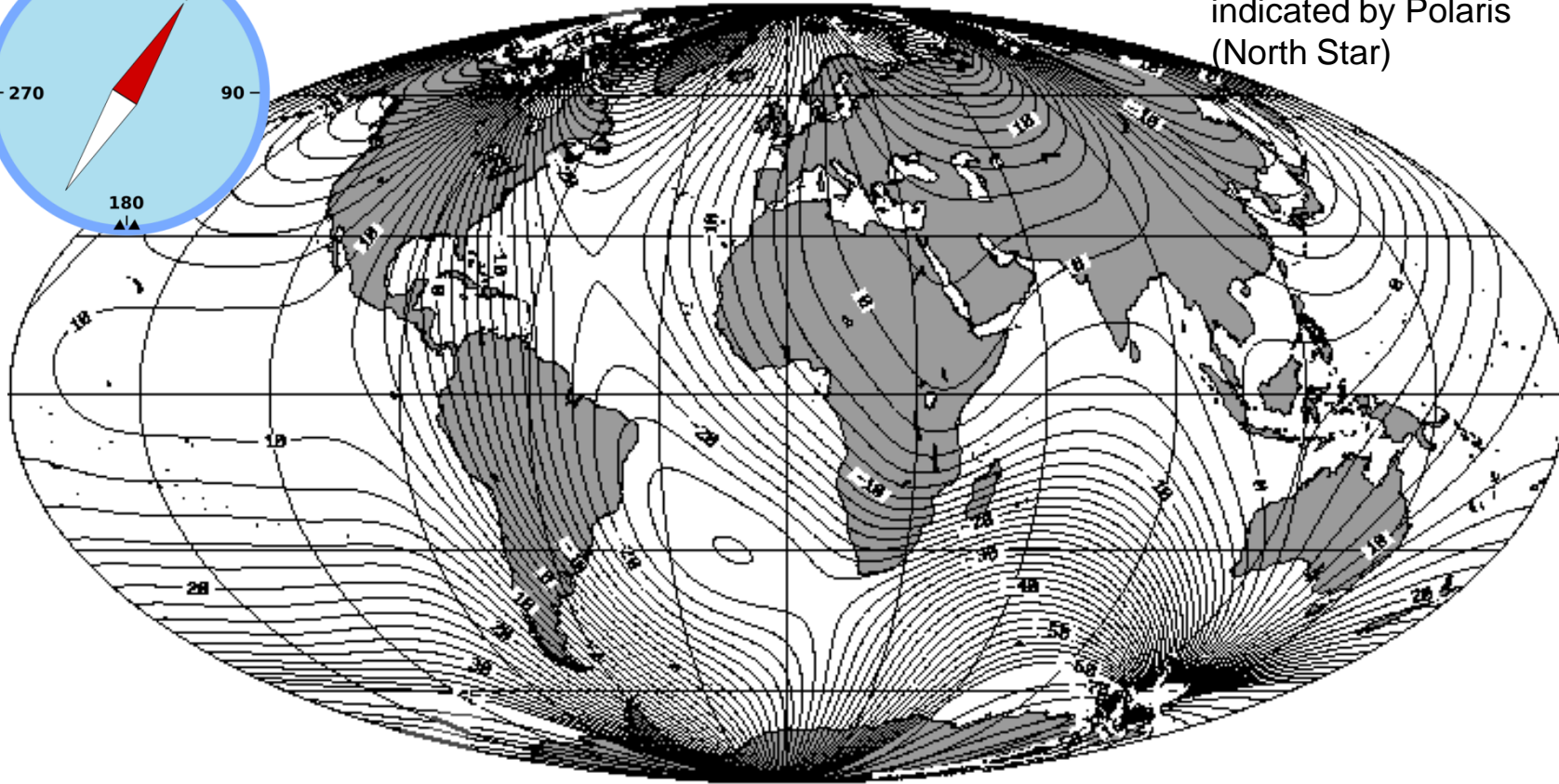


# TRUE NORTH AND MAGNETIC NORTH



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

North celestial pole is indicated by Polaris (North Star)





# 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.
- Between the two lies what we meet with in the phenomena of Warmth.
- — R. Steiner, GA320



# 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



# 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.

“Only now are they 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



# MANES AND DEALING WITH EVIL

- 5<sup>th</sup> Root Race: guidance of the soul from the Father withdraws
  - In esotericism: the Mother Isis is the soul who conceives or receives
  - The Father is the Revealer, Instructor, or Osiris as inpouring Divine
- Such a soul becomes the Widow
  - Manes designates himself as the Widow's Son
  - He prepares the soul to become independent
  - Today the soul becomes completely independent of the Father
- Manes inspires the Divine-Spiritual Light of the soul
  - To rebel against everything not from out of the soul itself
  - 'You must strip off everything that is external revelation, everything that external authority has transmitted to you. Then you must become ripe to behold your own soul.'
- Manes supports himself on the inner spiritual light of the soul
- To the Manicheans, Evil is an integral part of the cosmos, collaborating in its evolution, finally to be absorbed and transfigured by the Good
- Just as man has wrested himself from the animal so will he wrest himself from evil
- The evil and the good are still within man just as in days of yore the animals were within him



# 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
- 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
- What was formerly Life, later becomes Form for a new Life
  - The new Life is poured into the old Form



# MANES AS THE PARACLETE

- Today's Life for mankind is the fructification of Manes
- Today's Form comes, like a seed, out of the Lunar Epoch
  - Lunar epoch: Life of men=evolution, now it's form, outer shell
  - In confluence of Life and Form, the other is given at the same time
- Good of an earlier age unites with the Good of a newer age
  - That gives at the same time the possibility of material manifestation
  - That is the doctrine of Manicheanism
- What is the meaning of the utterance of Manes (Mani) that he is the Paraclete, the Holy Spirit, the Son of the Widow?
  - Manes prepares for the Sixth Epoch when men will be led by themselves, by the light of their own souls
  - Manes will create an overlapping stream, a stream which goes further than the stream of the Rosicrucians
  - The stream of Manes goes over to the Sixth Root Race which has been in preparation since the founding of Christianity
- Christianity appears in its perfected form in the 6<sup>th</sup> Root Race
  - The task of 6<sup>th</sup> Root Race: draw Evil into itself through gentleness

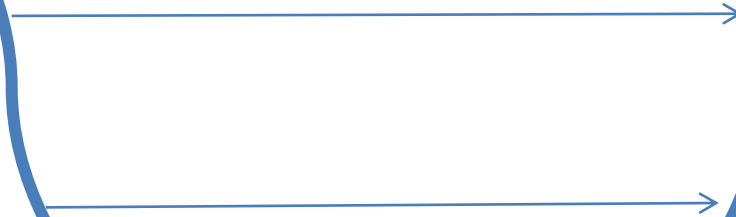




# FULFILLMENT OF CULTURAL EPOCHS

- “The Third PACA reappears in the Fifth, in order to permeate human souls with what the Fourth PACA [Egypto-Chaldean] has brought as something completely new
- Something similar will be the case with the Sixth PACA in regard to the Second, and the Seventh in regard to the First, the ancient Indian PACA”

R. Steiner, *Occult Science*, The Present And Future Of Cosmic And Human Evolution





# 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



# THE STARS ONCE SPOKE TO MAN

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

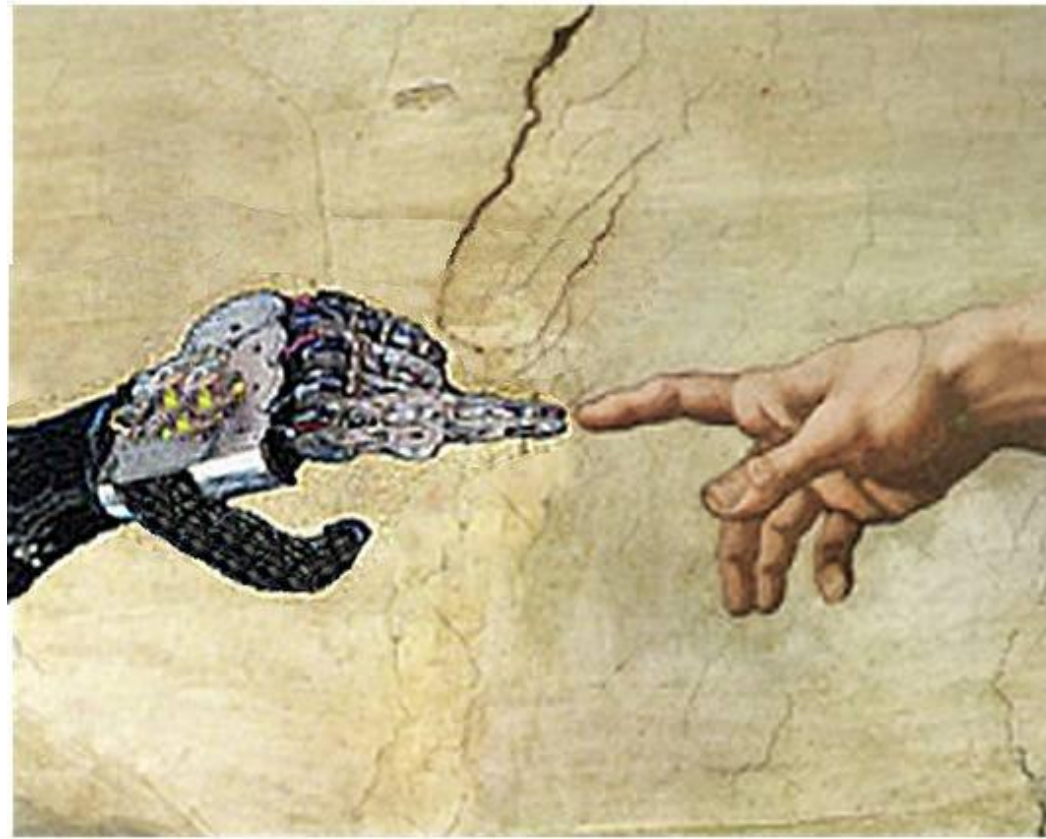
But in the deepening silence  
There grows and ripens  
What Man speaks to the Stars.  
To be aware of the speaking  
Can become strength for Spirit-Man.

Rudolf Steiner

spirit

soul

life



## END PART 2 Q&A



# 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, 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



# INCOMPLETE WORK FOLLOWS



# 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.

# HOW DOES ELECTRICITY ARISE?

- Lightning
  - Static electricity?







# 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 8<sup>th</sup> 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, 11<sup>th</sup> C
  - Alchemy in Sanskrit: Rasayāna for creation of divine body
  - In Persian: Rasavātam means the art of obtaining and manipulating Rasa: **mercury**, also juice/nectar



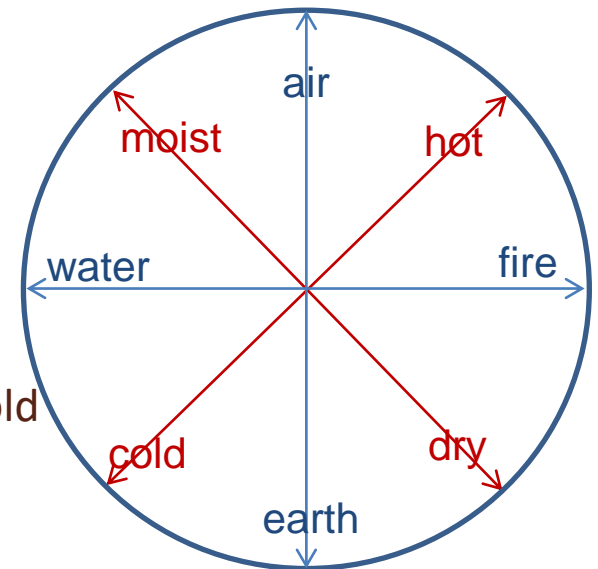


# FLOWERING WITHIN ISLAM: 8<sup>TH</sup> & 9<sup>TH</sup> C

- 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”

# ELEMENTS AND QUALITIES

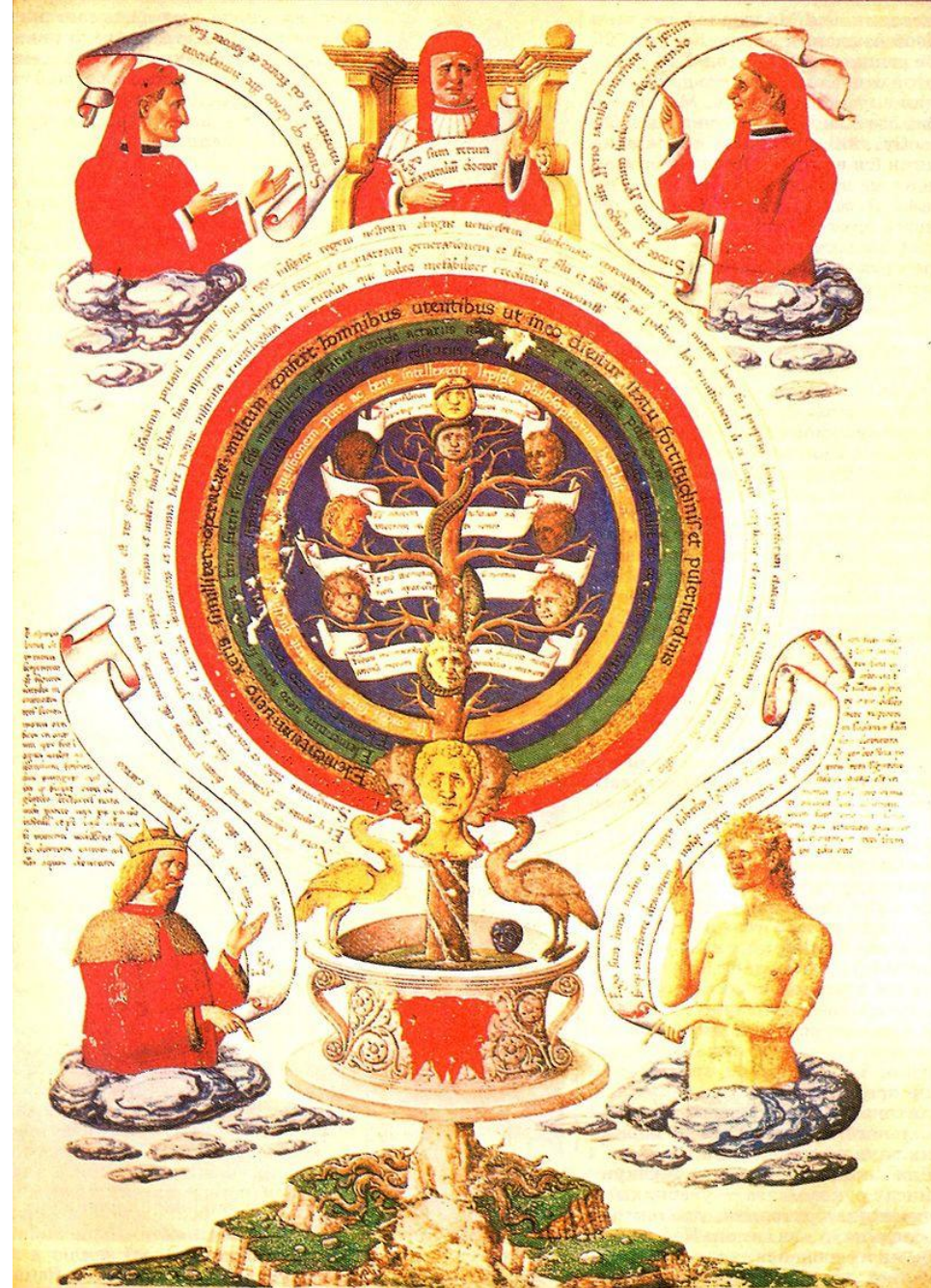
- Four Elements: earth, water, air, and fire (+ ethers)
- Four Qualities: hot, cold, dry, moist
  - Within each metal two of these qualities were interior and two were exterior
  - Examples:
    - Lead: externally cold and dry
    - Gold: externally hot and moist
  - Rearranging → different metal
  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





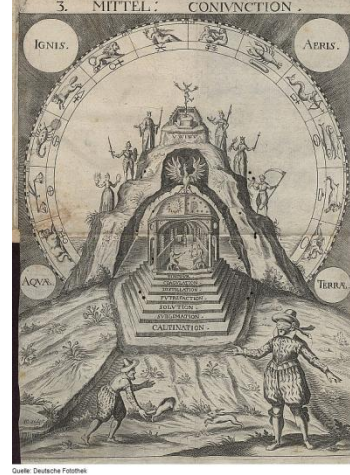
# 16<sup>TH</sup> C EUROPE

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



# 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



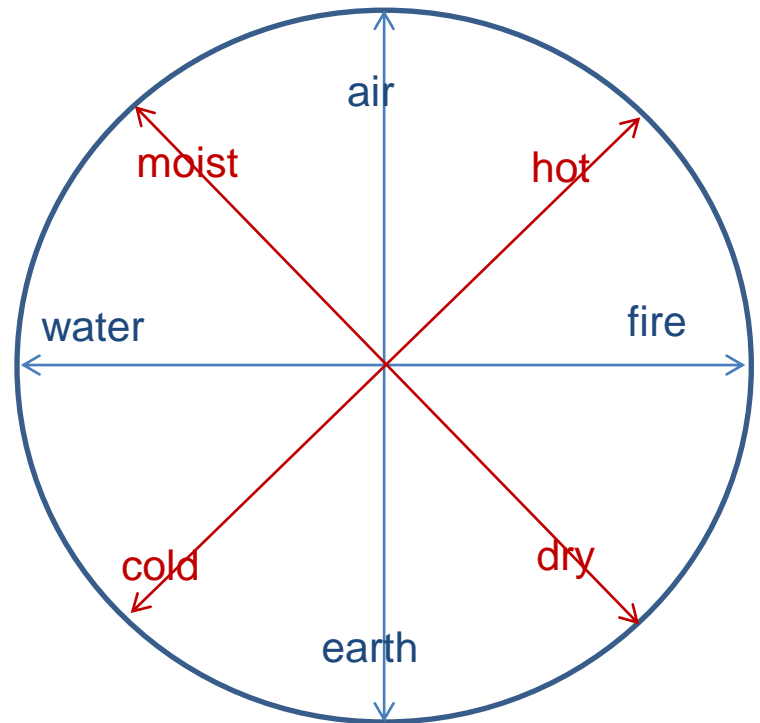


# SULFUR, AIR, AND THE ASTRAL BODY

- 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



# HOMEOPATHY AND MAGNETISM

- Quality can be passed through water



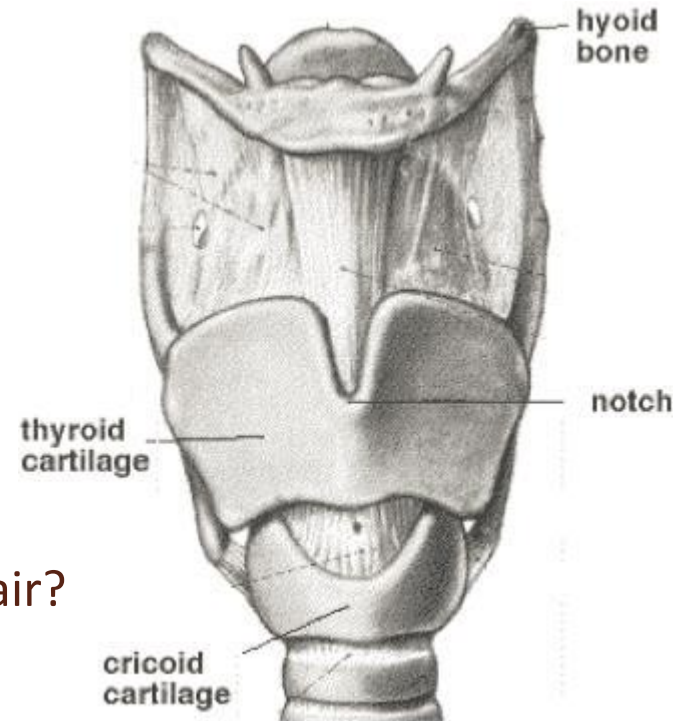
|               |          |          |
|---------------|----------|----------|
| Fallen Ethers | Elements | Ethers   |
| Warmth        | Fire     | Warmth   |
| Electricity   | Air      | Light    |
| Magnetism     | Water    | Chemical |
| Fallen Life   | Earth    | Life     |



# GOLD AND THE PHILOSOPHER'S STONE

# PROPAGATION THROUGH THE SPOKEN WORD

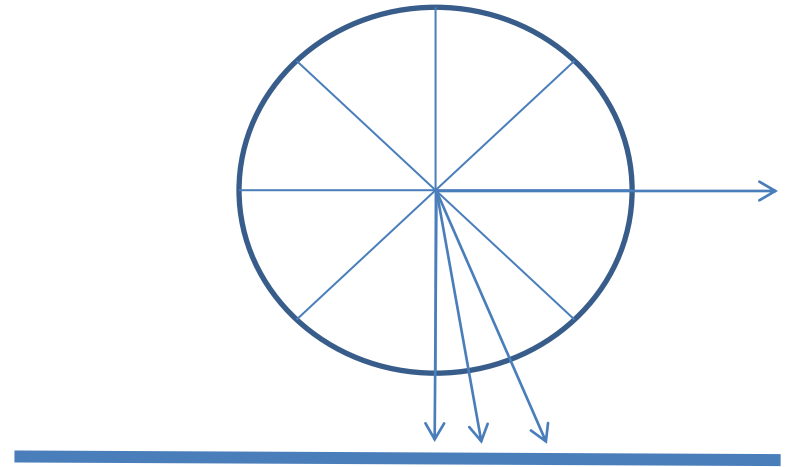
- Will we have physical bodies then?
  - Will our bodies be robots?
- What will the larynx be?
  - How will we speak? Vibrations in the air?
- Need for vibratory physics
  - Resonance
- 'Physics' of the ethers & the etheric body
- Sexual energy transformed
  - Ability to sustain in realm of pure thought





# 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](http://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

# 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



# 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?





# 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



# 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 6<sup>th</sup> 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 (6<sup>th</sup> Ep)?
- Relationship of mechanical occultism to prosthetics
  - Moral technology?
  - Only my will should move my prosthetic limb

# 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

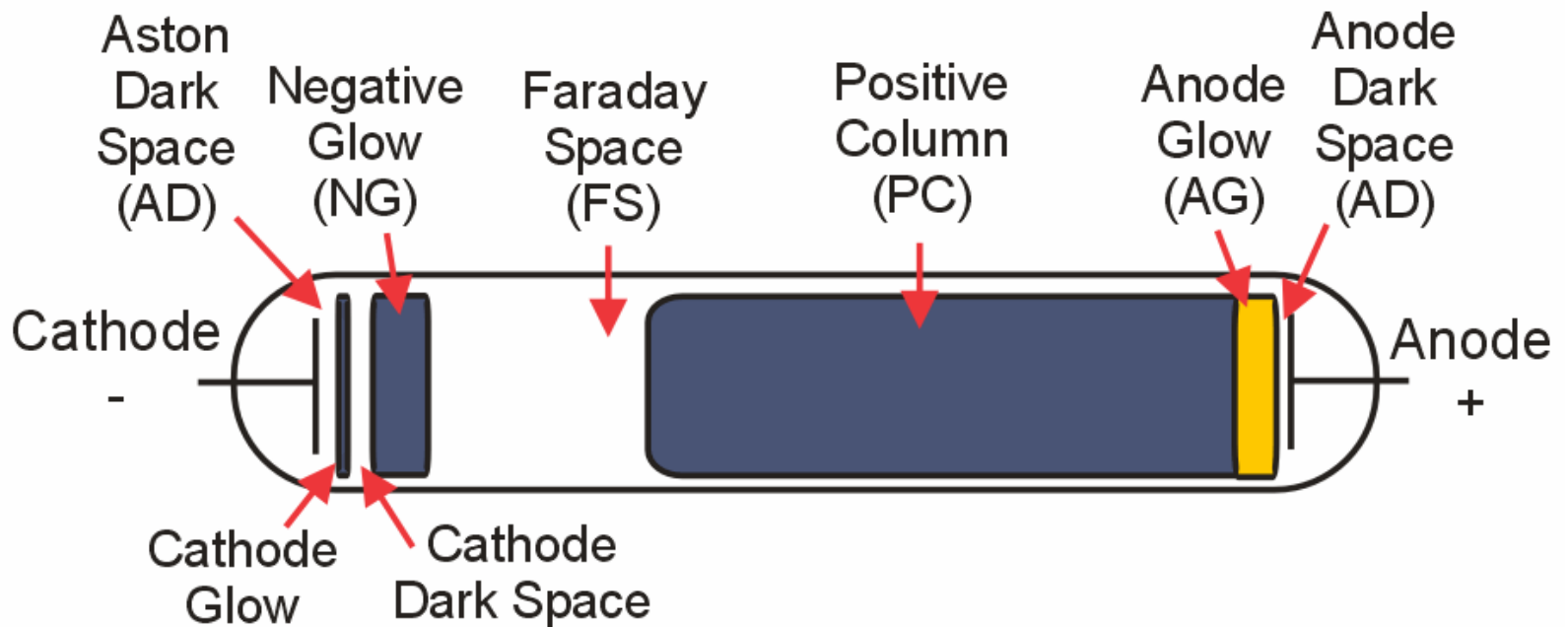
# ELECTROMAGNETISM AND MACHINES

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



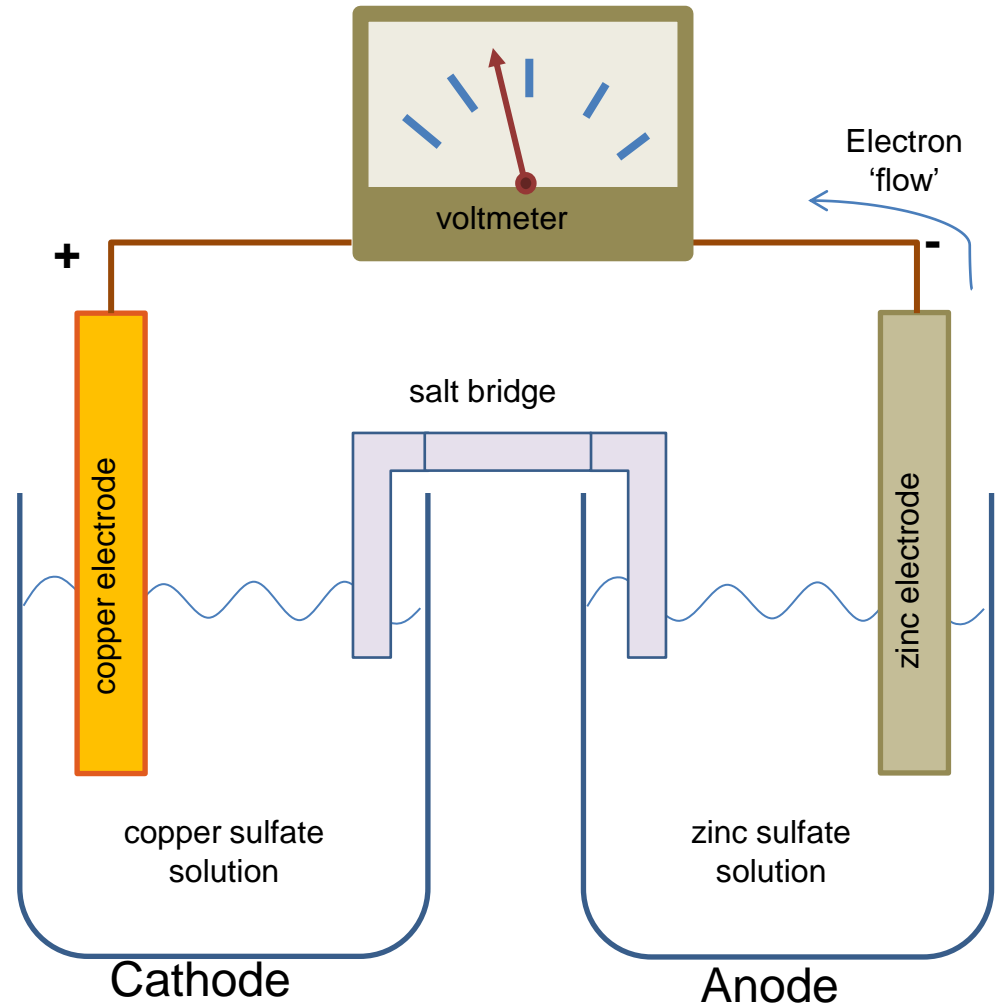
# GAS DISCHARGE TUBE, CRT

- 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





# THE STARS ONCE SPOKE TO MAN

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

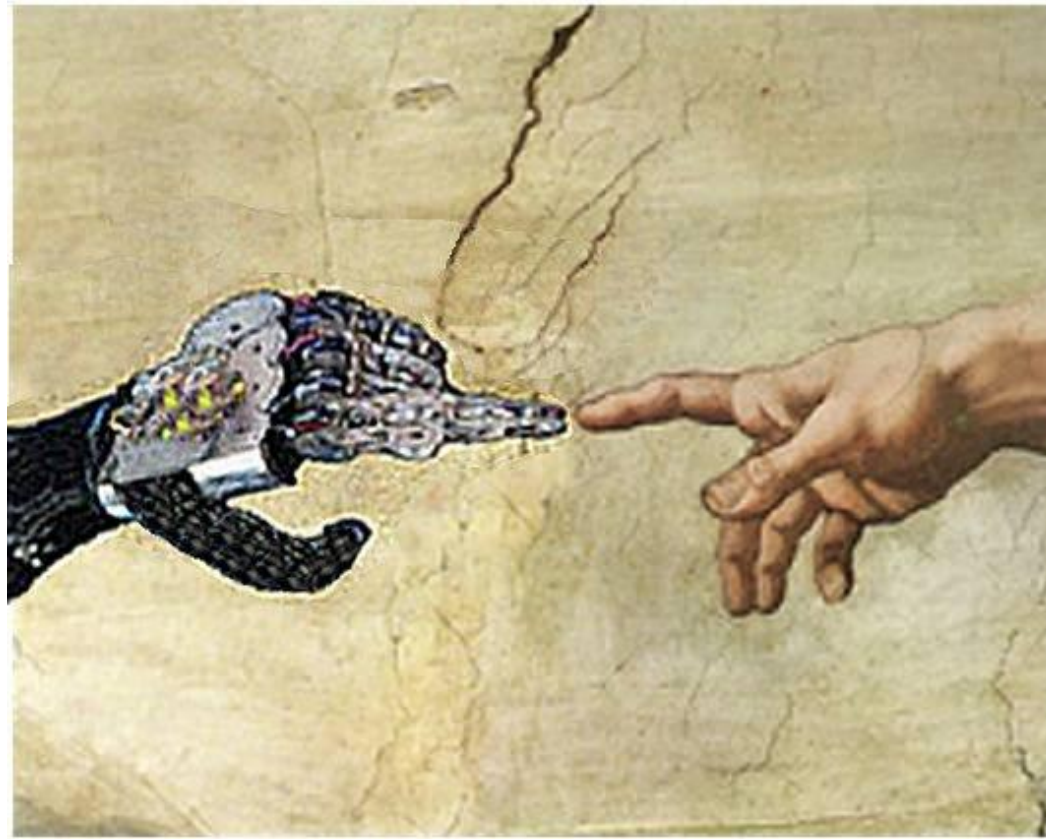
But in the deepening silence  
There grows and ripens  
What Man speaks to the Stars.  
To be aware of the speaking  
Can become strength for Spirit-Man.

Rudolf Steiner

spirit

soul

life



## END PART 2 Q&A



# 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, 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