



# ***Gifts of Ahriman***

***With Andrew Linnell***

[www.MysTech.co](http://www.MysTech.co)



**Center for  
Anthroposophical  
Endeavors**

2/21/2020



# Lecture Schedule

## Friday, February 21

- 8:00—9:30 pm: *The Iron Necessity of Our Technological Age*

## Saturday, February 22

- 9:45—10:45 am: *The Human Double and Its Future*
- **2:30—3:30 pm: Ahriman's Gift—Emancipation from Dead Thinking**
- 4:45—5:45 pm: *State of MysTech, Work to be Done, Social MysTech*

## Sunday, February 23

- 9:00—10:15 am: *Greek Mythology and its Relationship to Our Technological Age*



## Verse: Facing the Future

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

- Trust in the ever present help vs Fatalism
- **“direction full of wisdom”** – whose wisdom? God or Man?
- **“For the wisdom of this world is foolishness with God”** - 1 Corinthians 3:19



# The Physical Body on Old Saturn

"The physical human eye is similar to a camera, for, as with the camera, there appears within it a picture of the surrounding world. Only when one abstracts from the physical eye everything that is not to be found in the camera, does one discover **what is the specific nature of the physical eye.**

So too one must abstract from the entire physical body everything that is not purely physical: only then does one have **what in occultism is called the physical body.** In itself, it can neither live, think, nor feel.

There then remains a very wisely ordered, extremely complicated **automaton**, a purely physical apparatus. This, alone, was **all there was of human existence** at the Old Saturn stage."

— Foundations of Esotericism, LECTURE XII - Berlin, 7th October 1905



# Using The Machines of Old Saturn

"At that time the eyes were present only as little **cameras**. What was produced as [a] **picture** of the surrounding world came to the consciousness of a Deva being. In the middle of the Saturn evolution, the Archai were sufficiently advanced to make use of the apparatus. At that time they were at the human stage. They made use of the **automata** and the pictures they produced.

The Asuras themselves were not within the apparatus but **outside** and only made use of the pictures as we make use of photographic apparatus in order to take pictures of a landscape. Thus the physical body of man was at that time an architectural structure of a **physical apparatus** operated from outside. This is the first stage of human existence."

— Foundations of Esotericism, LECTURE XII - Berlin, 7th October 1905

# Why Technology in Evolution?

- **Emancipation**

- Labor: physical and mental
- Nature
- Cosmos

- Part of Evolution since Old Saturn

- Is a tool just a tool? Concept & Percept

- Our man-made world as the spiritualization of the mineral

- Hephaestus (Vulcan)

- Next generation of gods
- Need to understand who and why regarding the Vulcans

- Assist in separating from physical world – ascent to spiritual

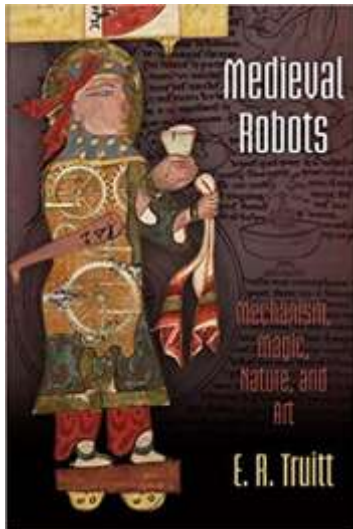
- Period of sexual procreation
- Period of separation of moon
- Period of separation of sun





# Automatons in History

- Hephaestus' robots:
  - Went between Olympus and Earth
  - Guarded seaports and palaces, Talos
- Navigation, Antikythera (~100 BC)
- 8<sup>th</sup> and 9<sup>th</sup> Century clocks
- Medieval times – robot saints



# Using Tech to help the Disabled





# The Temptation from Ahriman

- Freedom from suffering
- Freedom from illness
- Freedom from death
- Freedom from karma
  - Who gave us karma, death, and suffering anyway?
- Break from the past, forge ahead
- Create a new world based on laws, physical sciences
- Attain God-qualities through the power of intelligence
  - But without any (useless) warmth of soul, no Saturn, no love
  - Where are we like this now? Shadowy thinking!



# Virtual People Helping us



<https://www.soulmachines.com/>

- **Helping us with what?**
- Man-made world!
- More automation
- Customer Care
- Sales & Marketing
- Brand & Influencer
- Product
- Wellbeing
- People & Performance
- Training & Education
- Digital Innovation

# AHRIMAN'S GOAL



- Alter earth evolution
- Awaken in human beings an interest in “everything mechanical and machine-like”
- Create a “world with nothing but machines”
  - Everything predictable, calculatable
  - GA 203, lecture of 11 March 1921
- How can this be good? – when transformed

# Michael & Fallen Spirits of Darkness

- Laggard angels
- Driven out of heaven
- Now in human consc.
- Cosmic role for them
- Preparation



# Cosmic Role for Ahriman

- Brought into *human* evolution
  - Because of Lucifer during Eden
  - To where would we Fall, what *beings*?
  - Death as a gift (able to return)
  - Fall must be meaningful vs returning with same talents
- Ahriman is to living thinking as Lucifer is to freedom
- Ahriman is to the future as Lucifer is to the past
- Ahriman is to the earthly as Lucifer is to the cosmic
- Dark – Light
- Cold – Warmth
- Death – Life



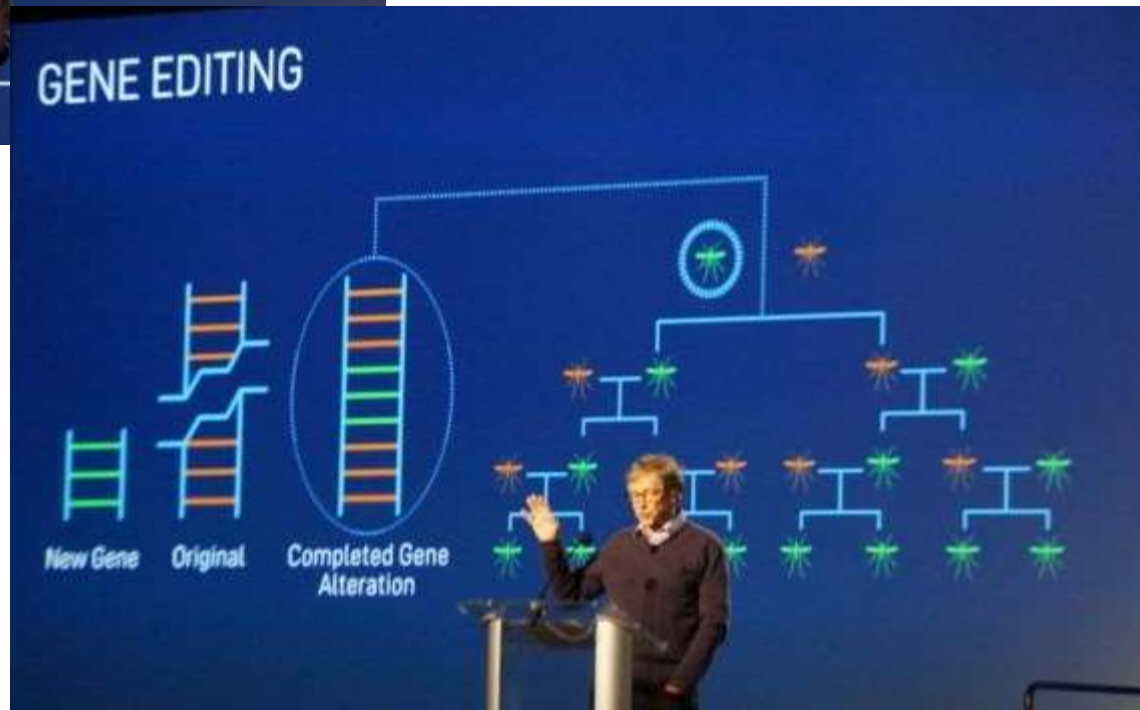
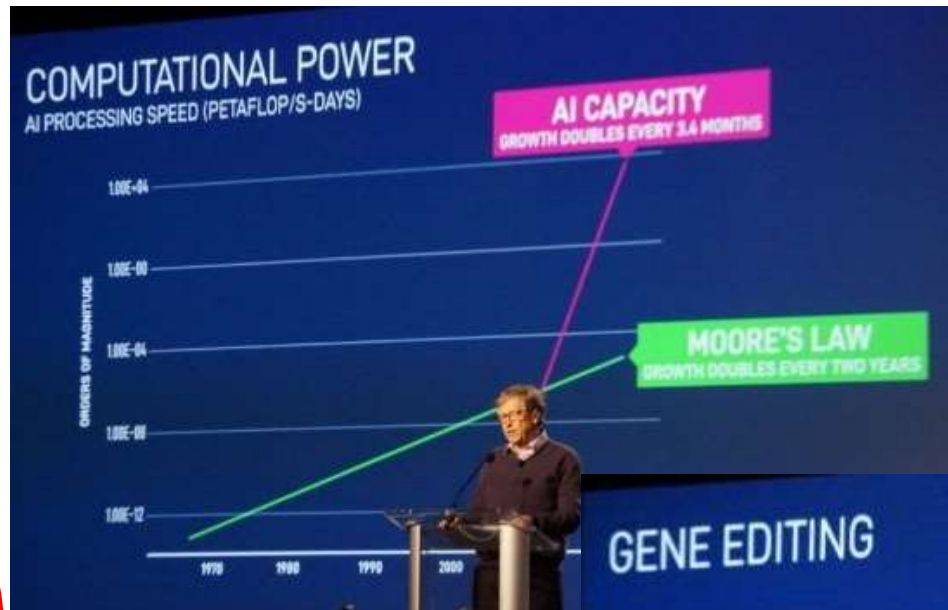
***Wresting the gift from Ahriman***





## E.G. Wrestling from Ahriman

- “As in a picture, humanity appears to be sinking into the material element, with Hegel standing in the center, working himself out of it with all his might and **snatching away from Ahriman** what he has that is good, namely, the **abstract logic** that **we need** for our inner **liberation**, without which we will not achieve **pure thinking**.”
- Hegel wrests this logic from the powers of gravity, from the terrestrial powers, presenting it in all its **cold abstractness**, so that it may not live in the Ahrimanic element **dwelling in man**, but can **rise into human thinking**.
- Yes, this Hegelian logic is **wrested from the Ahrimanic powers**, torn free from them and bestowed on humanity. This is what mankind **needs** and without which it **cannot progress** — which, however, had first to be **rescued** from Ahriman. ... who in an inner struggle of soul and spirit wrested from the Ahrimanic powers those concepts and ideas which are needed to acquire sufficient inner spiritual steadfastness for **ascending** the ladder into the spiritual world; but who also **offers much else of inner spiritual discipline**.”
  - *Spiritual Science as a Foundation for Social Forms*, [lecture 9](#), 27Aug1920, GA 199



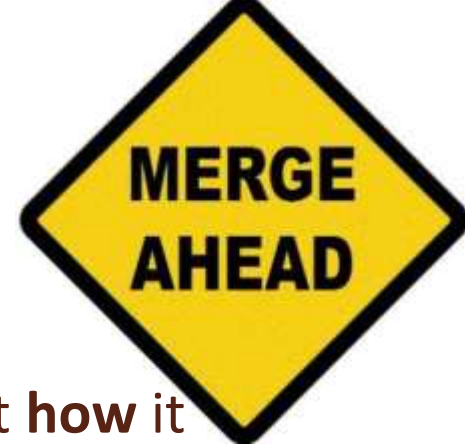
# TRANSFORMING AI TO SERVE HUMANITY

<http://fully-human.org/>

- [Scientists Are Now Growing Human Brains In The Lab](#)
- [How Transhumanism Hopes To Eradicate All Suffering](#)
- How Did Imagination Get Separated From Science?
- Why You Might Never Be Able To Upload Your Brain To A Computer
- Materialist Theories Of  
Consciousness Is Not Plausible
- Being Human In The Age Of  
Technology



# Cosmic Necessity?



- The point is **not what** is going to happen, but **how** it happens — how these things are handled.
- **“The *welding* together of human beings with machines will be a great and important problem for the rest of the earth-evolution.”**
- Human **consciousness depends on destructive forces.**
- In our **nerve-system** we are always in process of dying.
- **“These *forces of death* will become stronger and stronger, and we shall find that they are *related to the forces of electricity* and magnetism, and to those at work in machines.”**
- *The Wrong and Right Use of Esoteric Knowledge*, lecture 3, 25Nov1917, Dornach, GA 178

# Merging Man & Machine



- “***Guide his intentions and his thoughts*** into the forces of the **machines.**”
- “Forces in human nature that are still unknown will be discovered — *forces which will **act upon external electricity and magnetism.***”
- The bringing together of human beings with machines
- “This is something which will exert ever-increasing influence on the future.”
- *The Wrong and Right Use of Esoteric Knowledge*, lecture 3, 25Nov1917, Dornach, GA 178



# Cosmic Goals of Merging

- Dealing with great **life**-problems
- Place the **spiritual etheric forces** at the service of practical life
- **Radiations from human states of mind are carried over into machines**
- Human beings are to be brought into relation with an **environment** which *must become increasingly mechanized*
  - *Wrong and Right Use of Esoteric Knowledge*, lecture 3, 25Nov1917, GA 178
- **Interpenetration** of Moral and Mechanical for the future





# ***What's Happening? Technical Update***

***With Andrew Linnell***

2/21/2020

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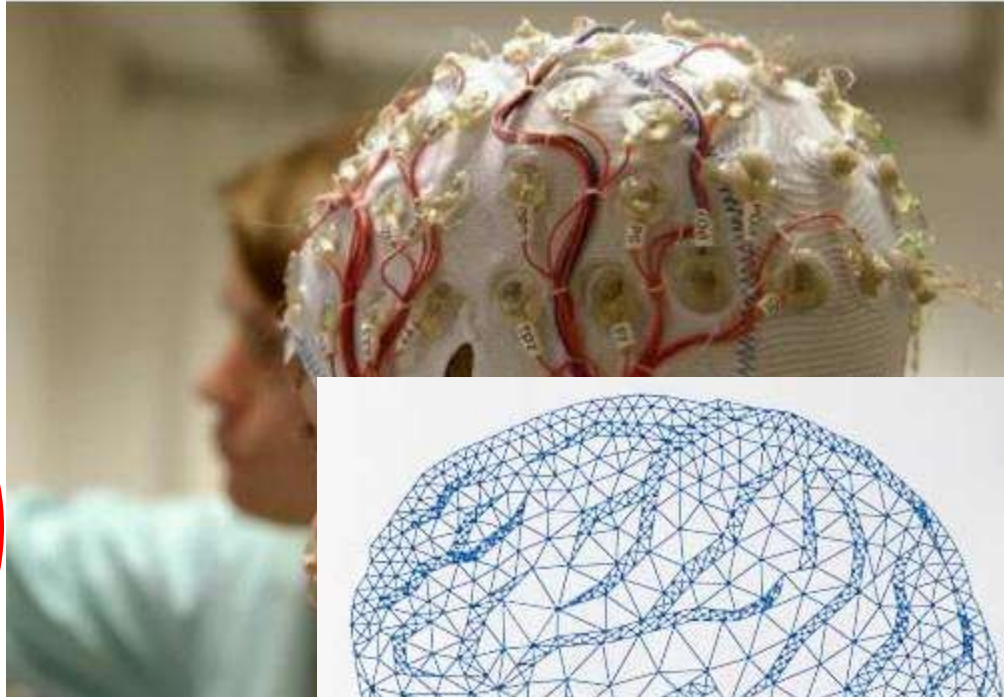
# Control of Prosthetic Limbs



<https://youtu.be/HjW1kl5iQg>

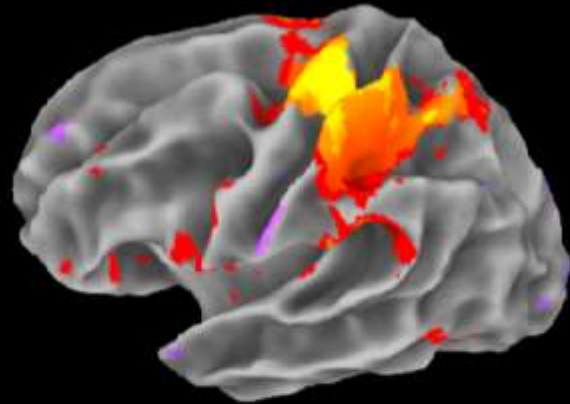


# fMRI Prosthetic Limbs

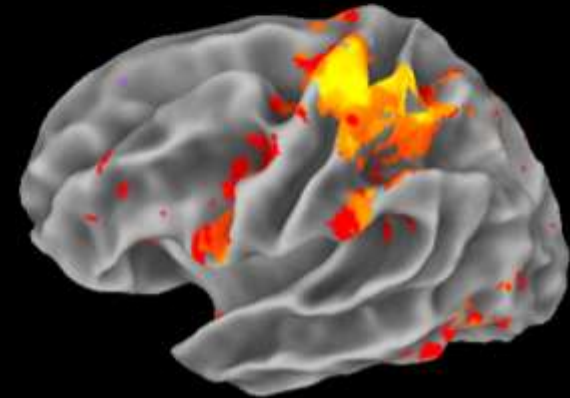


Neuralink

Healthy Subjects  
(Right Hand)



Stroke Patients Affected Hand  
(Right Hand)



Contralateral Hemisphere

# ExoSuits





# Equalizing Gender in Soldiering



# Where Will This Lead?



## Consciousness Expansion

- Upwards?
- Downwards?

Must prostheses look  
human?

What will be inside?

Goal of Love & Freedom



# What Can We Fall In Love With?

A person with:

- Bionic finger?
- Bionic arm?
- Bionic arm & a leg?
- With a pace maker?
- Transplanted face ?
- Who we know only through their avatar?
- Love is our goal
  - But the way to Hell paved with good intentions!





# A Moral Technology

- Soon electric machines interfaced to human
- Future machines driven by one's moral impulse
- “In the future machines will be driven not only by water and steam, but by spiritual force, by spiritual morality. Such a **driving force** which can only be **moral**, that is the idea of the future.”
- “We will find it to be a most important force, with which culture must be inoculated, if it is not to fall back on itself.”
- “The **mechanical and the moral must interpenetrate** each other, because the mechanical is nothing without the moral [from a spiritual perspective].”



# Interpenetration of the mechanical and the moral

- “Just as now human circumstances conform to fundamental laws of Nature, so in the future will they conform to what is moral. They will be graded in accordance with the stages of Karma, seven degrees of morality.”
- Tau and Holy Grail
- This is a far distant technology



- Become master craftsman of the living





# Will Art Play a Role?





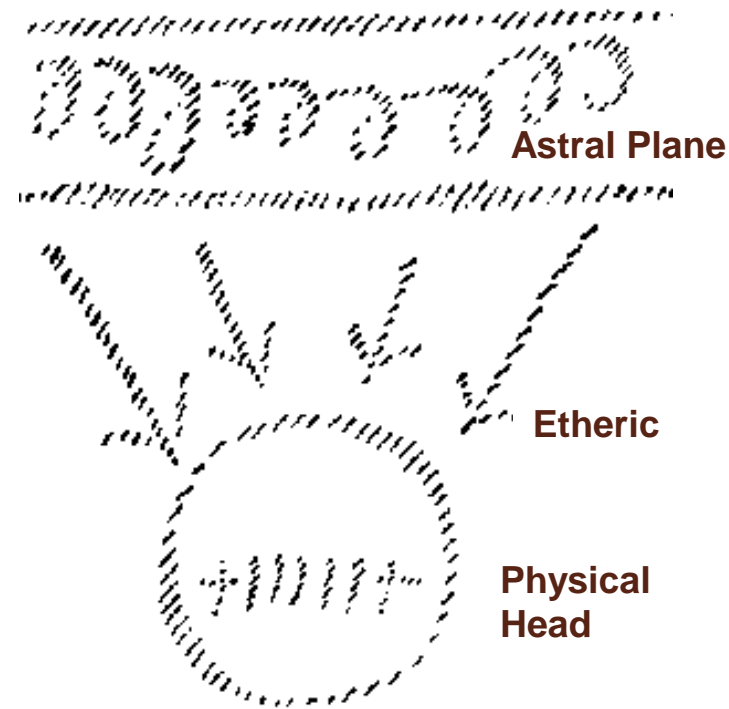
# REVIEW: Mechanical Occultism

- Consciousness depends on **destructive** forces → nerves: *related to the forces of electricity* and magnetism
- Guide his **intentions** and his thoughts **into machines**
- Forces in human nature will act upon **external** electricity and magnetism
- Electricity & Light as polar opposites from same source
- Human thought is the same thing as electricity (coin)
- Atom as coagulated electricity (right concept)
- Future: Build with atoms created through the power of (living) thinking

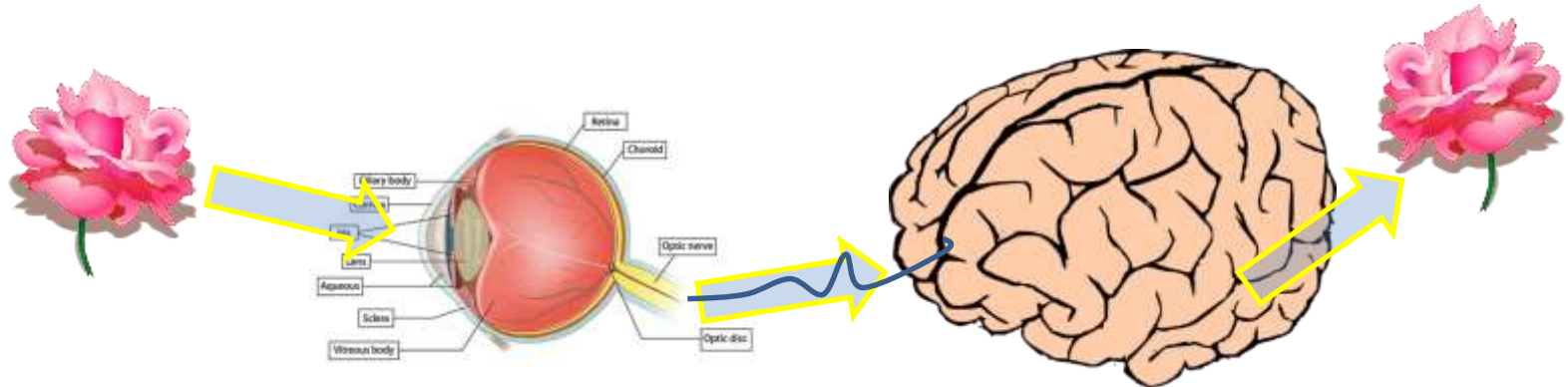
# What is Human Thinking Today?

- Human thinking is the **shadow-image** of mental pictures and beings belonging the astral plane
- Thoughts as living beings on the astral plane
  - Beings of the most varied kinds are at work there
  - Their mental pictures and deeds cast their shadow-images
  - These processes are reflected in the human head as thinking
  - Continuous streams move between head and astral plane

*The Etherization of the Blood, 10Oct1911, GA 130*



# Where is the Flower?



(Current) Science and transhumanists say

- Colors, smells, and other senses are creations of the brain
- Flower is just collection of atoms releasing photons
- Action potential, neurotransmitters, visual cortex
- Why is flower seen “out there” – illusion of the brain (not real)
- Then our sense perception must not be real! QED theory wrong
- Light waves? Only through technically assisted senses. Objective?
- Colors/sounds objectively real? If so, then not wave function.
- Quality (experience) and quantity (physiological) co-exist: emergent!
- Perceptive consciousness is not IN the brain but returns to the object
- “Extended mind” [D. Chalmers] – into the cosmos

# Thinking and Machines

- “Gradual development of these still imperfect, primitive machines into a kind of machine which depends upon **vibrations**, and where the aim is to make the machines effective by means of vibrations or oscillations
- “Everything is hastening towards such machines and
- how the **motions of human moods** allow themselves to be translated into **wave motions on machines**”

*Reappearance of Christ in the Etheric, lecture 12, 25Nov1917, Dornach, GA 178*





# Already your mood Can be detected

- [MIT](#)

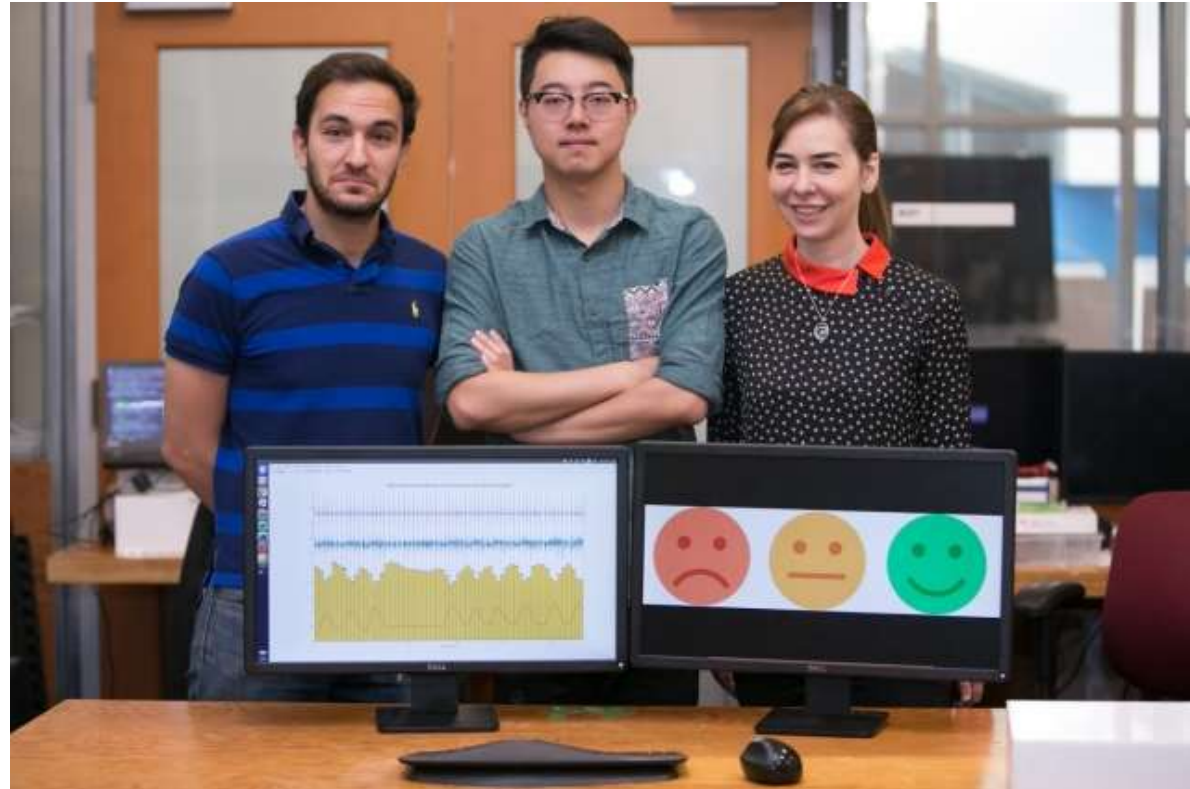
CSAIL device  
uses RF waves

## Measures

1. heartbeat
2. **breathing**

## Tell if you're

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



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

- Detects up to 8 emotions

# Guidance

## Right

- Pisces and Virgo
- Morning and evening
- No harm to evolution



## “Mechanical” “Demon-magic” Beasts”

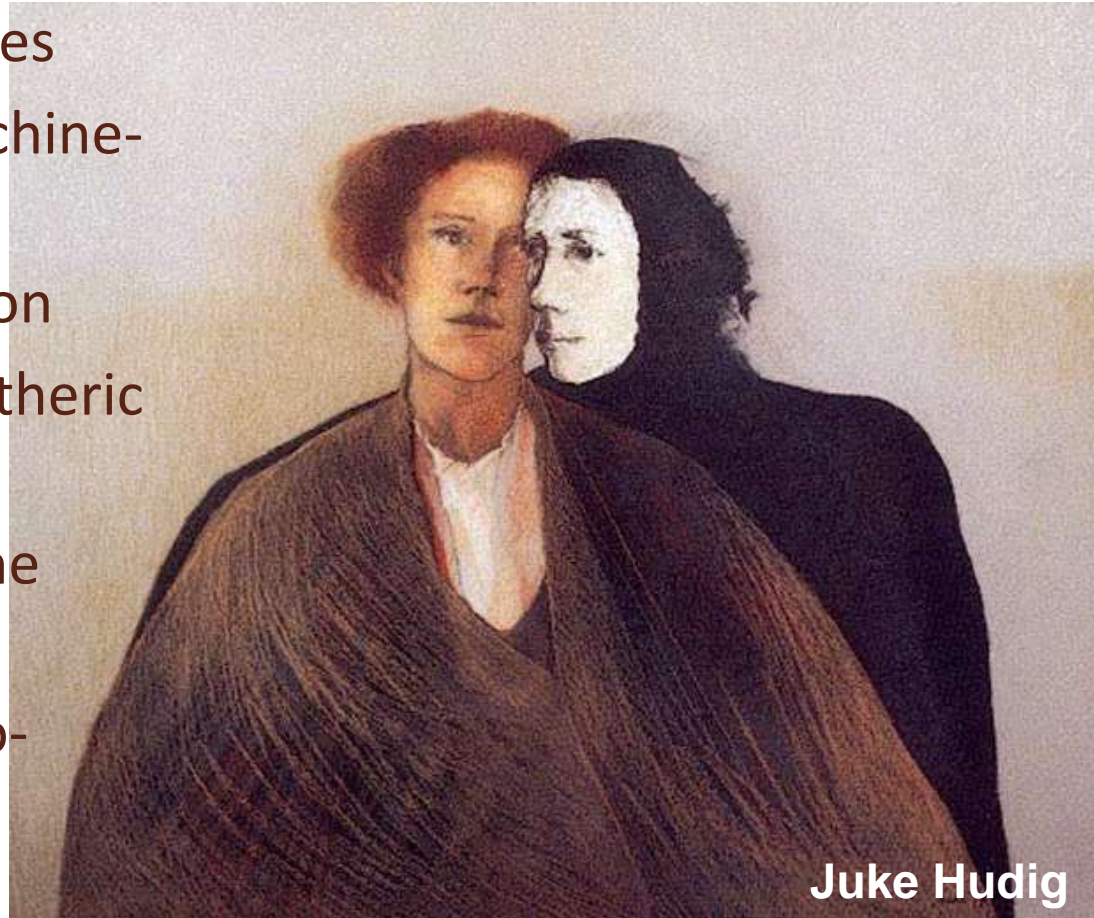


## Wrong

- Sagittarius and midnight
- Gemini and midday
- Serves egotistical or group egotistical purposes

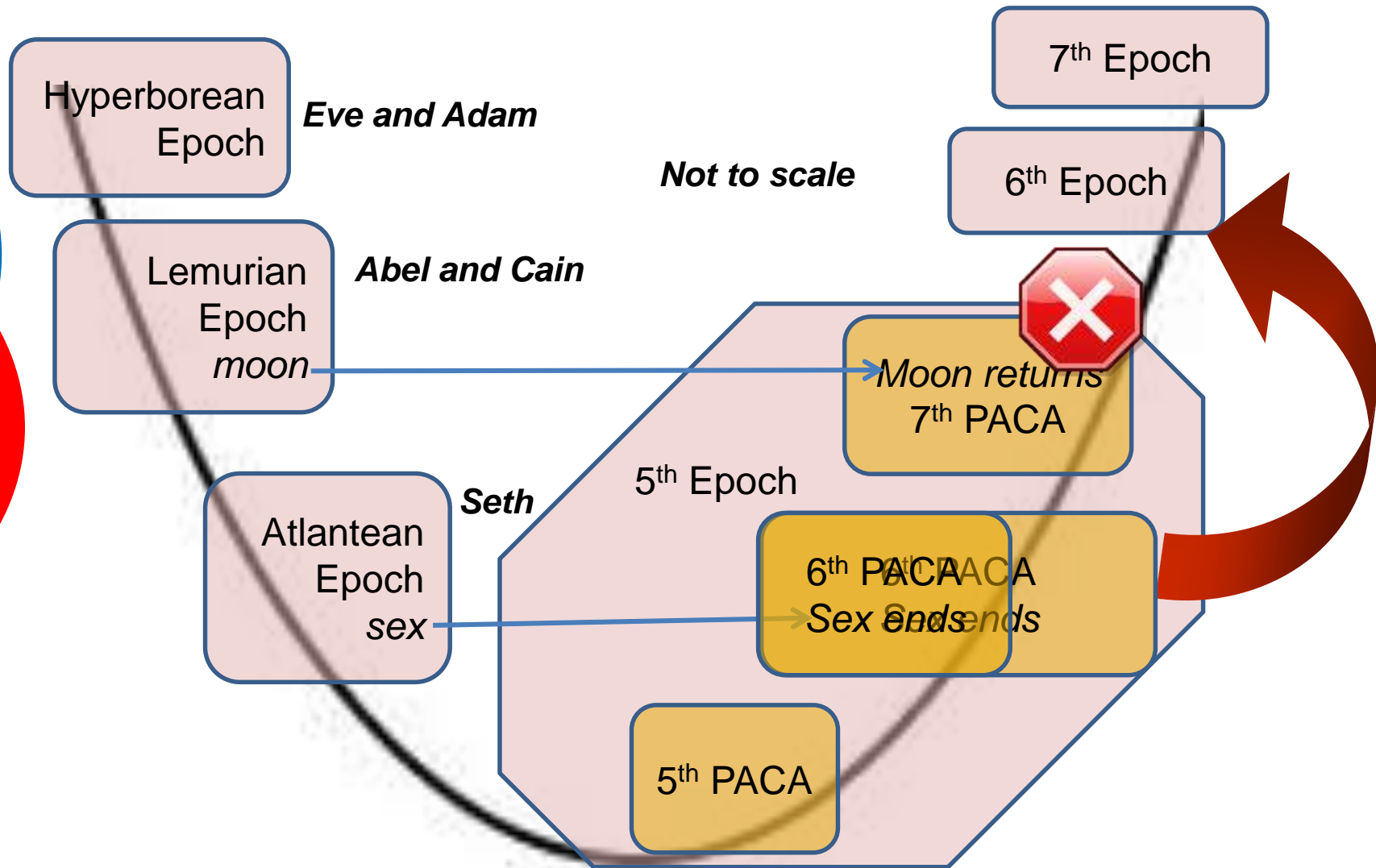
# Take-Aways

- Living with machines
- Living within a machine-augmented body
- Vibratory interaction
- Loosening of the etheric body
- Future home for the double
- Learning how to co-create for Jupiter
- Temple of the I

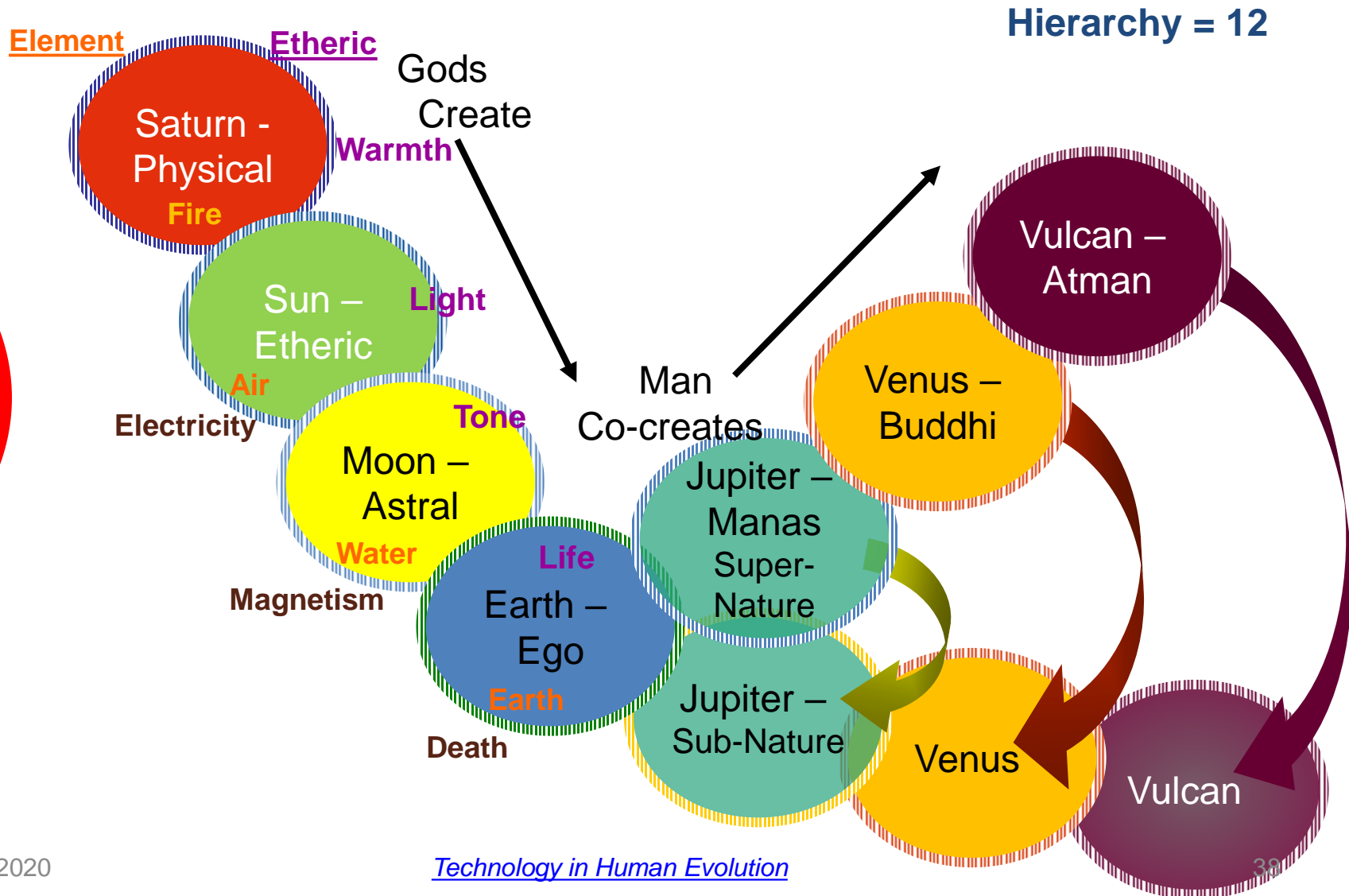


**Juke Hudig**

# Cycle of Evolution for Mankind



# The 7 Planetary Conditions







# ***Gifts of Ahriman***

## ***Q&A***

***With Andrew Linnell***

2/21/2020

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# Additional Closing Verse

- *In the spirit lay the germ of my body.  
And the spirit has imprinted in my body  
The eyes of sense,  
That through them I may see  
The lights of bodies.  
And the spirit has imprinted in my body  
Reason and sensation  
And feeling and will,  
That through them I may perceive bodies  
And act upon them.  
In the spirit lay the germ of my body.*
- *In my body lies the germ of the spirit.  
And I will incorporate into my spirit  
The super-sensible eyes  
That through them I may behold the light of spirits.  
And I will imprint in my spirit  
Wisdom and power and love,  
So that through me the spirits may act  
And I become a self-conscious organ  
Of their deeds.  
In my body lies the germ of the spirit.*



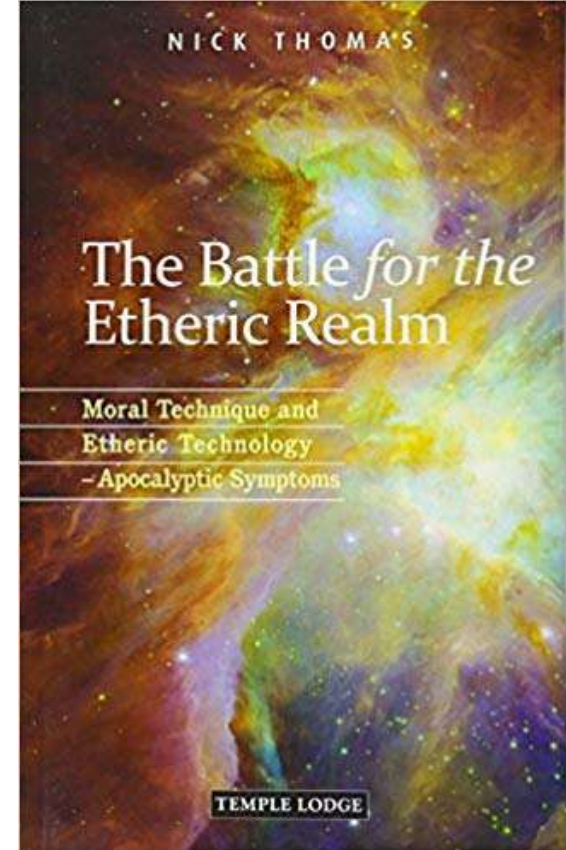
# Break: Dealing with Our Double

# Living Thinking (Craig Holdrege)



# Battle for the Etheric

- Merge Physical but also Etheric?
  - What etherics belong to our Double?
  - Mirror of the etheric
  - Loosening of Etheric body
- Christ in Etheric
  - Lucifer and Ahriman? Michael?
  - The Important Event of Our PACA
  - Living Thinking. Hearts begin to have thoughts.
  - Recognize the HB, good and evil
  - 1933 onwards
  - Evolution







# Vibratory Goal

- “Well, the whole way in which people construct machines varies greatly according to the nature of the machine in question; but everything tends towards the gradual development of these still imperfect, primitive machines into a kind of **machine which depends upon vibrations**, and where the aim is to make the machines effective by means of vibrations or oscillations, by means of movements which run a periodic course.”
  - Rudolf Steiner, *Man as Symphony of the Creative Word*, lecture 2



# What Could Go Wrong?

- “But if once these machines in their coordinated activity could be constructed in such a way as can be learned from the distribution of foodstuffs in the organization of the **cow**, then the **vibrations** which would be **conjured up** on the earth-globe through the machines, these small earth-vibrations, would so run their course that what is above the earth would sound together with, **vibrate together** with what is happening on the earth; so that our planetary system in its movements would be **compelled to vibrate** with our earth-system, just as a string tuned to a certain pitch vibrates in sympathy when another one is struck in the same room.”
  - - Rudolf Steiner, *Man as Symphony of the Creative Word*, lecture 2

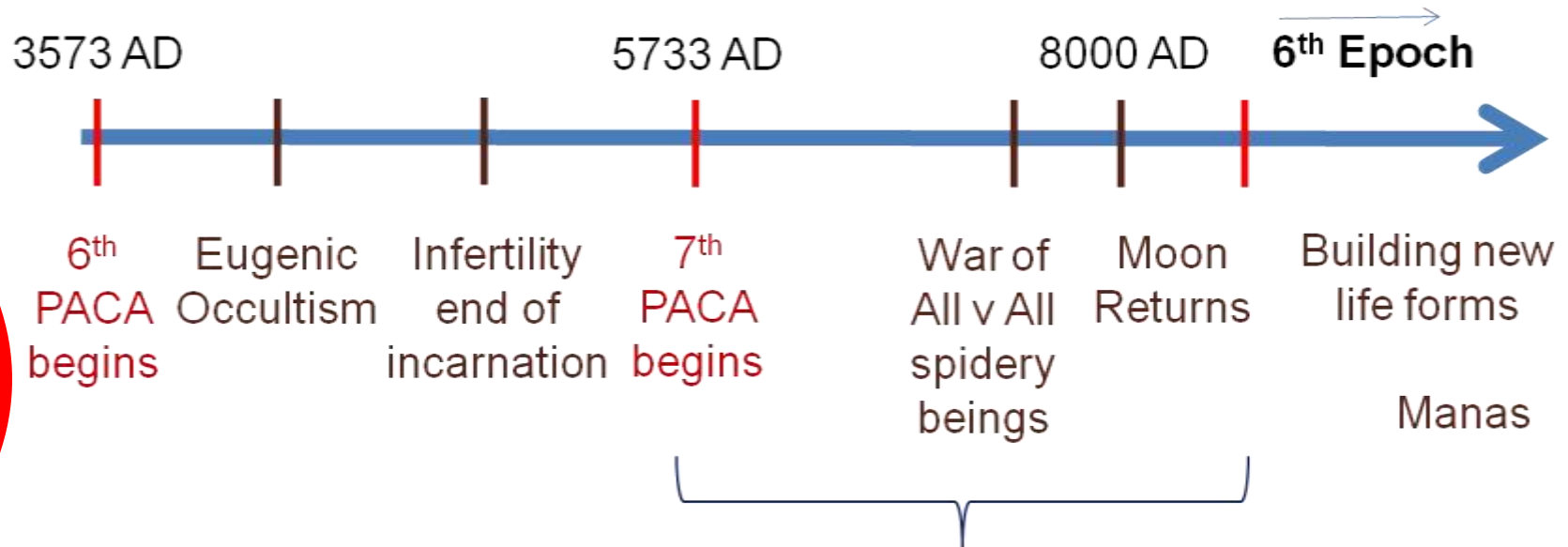


# Screen Time

- Human Screenome Project could inform academics, health professionals, educators, parents, advocacy groups, tech companies and policymakers about how to maximize the potential of media and remedy its most pernicious effects.
- <https://theconversation.com/screen-time-conclusions-about-the-effects-of-digital-media-are-often-incomplete-irrelevant-or-wrong-129960>

# TIMELINE FOR A FUTURE 'WELDING'

Conquer the Mineral Kingdom



Manas

No physical bodies

Will we use robotic bodies?

- How will we prevent hackers taking over our body?
- How will we prevent our astrality and egoism from doing terrible destructive acts? Ans: moral tech



# Prior Tragedies and Future Ones

- Separation of the sun
- The Fall
- Separation of the moon
- End of Lemuria
- Black Magic of Atlantis
- The Flood
- The Plague
- WAAA
- Return of the Moon
- Return of the Sun



# A Task for Humanity


- Moral & Mechanical: Must **Interpenetrate**
  - Why?
  - History – Future (to Jupiter)
- Moral on Jupiter?
  - Moral in Nature on Earth
  - <https://www.weforum.org/agenda/2018/03/autonomous-robot-bees-are-being-patented-by-walmart>





# Facing the Future

- If we begin with the human being, then this passage has importance:
- "After all, there is really nothing in the world that would not bring blessing to man, were it only in its right place! We should be thoughtless and unreflecting, if we lacked this centre within us. For this centre enables us to experience in it something we would never be able to experience in the external world. In the external world we see objects in a material sense, and following the custom of present day science we speak of the conservation of matter, the indestructibility of matter. But in this centre of destruction it really happens that matter is destroyed. Matter is thrown back into nothingness, and we have the power within this nothingness to cause the good to arise. We do so, if instead of instincts and impulses, which are bound to work in the direction of egoism, we pour moral and ethical ideals into the centre of destruction. Then, in this very centre of destruction, the seeds of future worlds arise. Then we, as men, take part there in the coming into being of worlds.
- When we speak, as you may read in my Outline of Occult Science, of how our Earth will one day suffer dissolution, and of how out of all manner of intermediate states of transformation the Jupiter existence will eventually be evolved, then we have to see it in this way. The Jupiter existence will contain nothing but the new creation that is being formed to-day in man within this centre of destruction. It is being formed out of man's moral ideals, but also out of his anti-moral impulses, out of what works as evil from his egoism. Hence the Jupiter existence will be a battle between the good which man, already here and now, is bringing to birth by carrying his moral ideals into his inner chaos, and the unmoral and anti-moral which is due to the presence of egoism.
- Thus, when we look into our deepest selves, we are gazing upon a region where matter is thrown back into nothingness."
- The Seeds of Future Worlds, 1921, <https://wn.rsarchive.org/Lectures/Dates/19210924p01.html>

- 
- The future inner development of the human being must be preceded by an unaware processing of the astral body under the influence of higher powers which already began in the Atlantean era: sentient soul. The transformed etheric body is the mind soul and the transformed physical body is the consciousness soul. Conscious work on the consciousness soul yields the spirit self whose beginnings will appear in the sixth cultural epoch (community of Philadelphia of the Apocalypse). "In Philadelphia Christ (in the etheric) will reappear in a finer body which will be visible for those who have prepared themselves."
  - About the meaning of the number 12,000 and the 144,000 sealed human beings in Apocalypse 7:4-8).
  - The sense of the 3 ½ days in Apocalypse 11:7-12.

# Lemurian Remains?





# Dualities

- Color: Light ~ Dark
- ? : Moral ~ Mechanical





# What Must We Develop?

- “If we would describe the condition of our souls in this connection we may say to begin with that we have a sleep-consciousness that for us is closed but for the ancient people of India was still permeated by the light of spiritual vision. What we are now striving for lay hidden in the depths of the future for them. I mean what we call **Imaginative Knowledge**, fully conscious **picture-consciousness**, permeated by the sense of the **ego**; fully conscious **Imagination** as it is described in [\*Knowledge of the Higher Worlds\*](#).”
- The Occult Significance of the Bhagavad Gita, [lecture 8](#), GA 140



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# Human Body

## Inner and Outer

- Warmth : porous boundary
- Air : moves back and forth with breathing
- Liquid : evaporation, exhalation
- Solid : Demarcation

## Four organisms of the human body and the soul

1. Ego in the warmth : willing
2. Astral in the aeriform : feeling
3. Etheric in the fluid organism : pictorial concept process



# Ethers

- “the etheric body vibrates in the fluid organism” -- The Bridge Between Universal Spirituality and the Physical Constitution of Man, lecture 1, 17Dec1920, GA 202
- “within this fluid organism the thoughts are produced through the fact that within the fluid organism something asserts itself in a particular metamorphosis — namely, what we know in the external world as tone”

# Rainbows







# Human Soul and Christ

- Thinking: Seek and you shall find
- Feeling: Ask and you shall receive
- Willing: Open the door and the I shall enter



# Overview of our Body & Soul

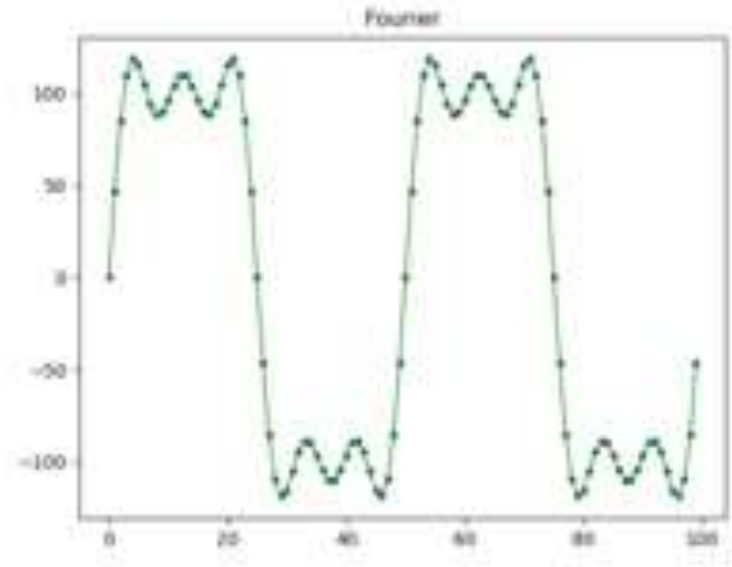
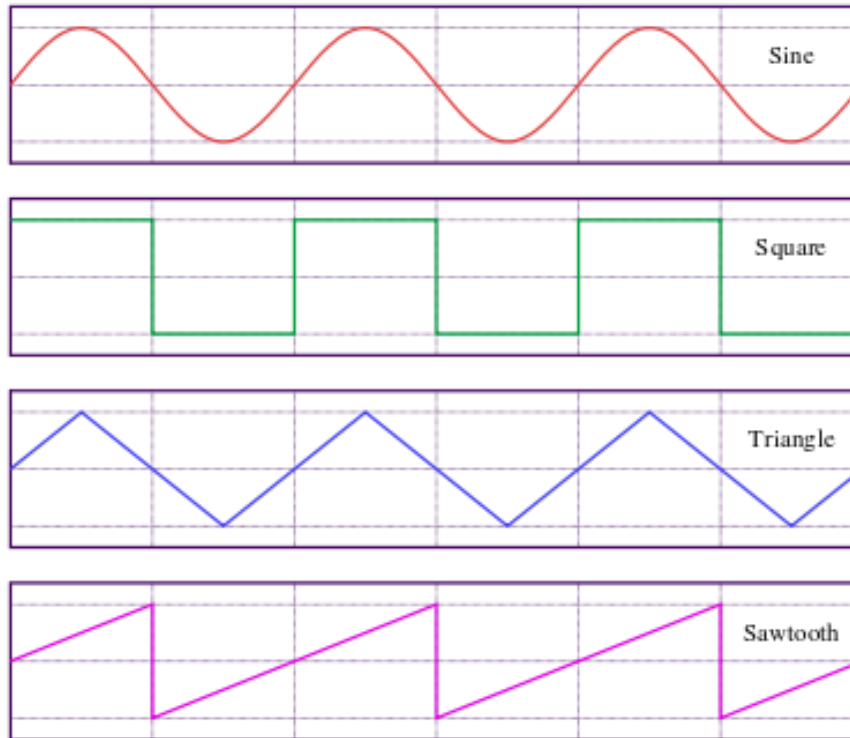
- Every 7 years
  - All cells replaced, teeth change, puberty, adulthood, ...
  - From birth, the child is head and “as time goes on, the head-organism needs to move itself further away from the immediate earth-forces. The head rises; consequently, we grow.”
  - “In looking at the body, we are really looking at our Ahrimanic part, and this is all that modern scientific anthropology describes in man”
  - “We see our physical part materialized, densified by Ahriman; our soul-spiritual part rarified by Lucifer”
  - “on the one side the physical-corporeal Ahrimanic phantom, on the other the soul-spiritual Luciferic phantom; two doubles” = human
    - *The Being and Evolution of Man*, Berlin, 23Jul1918, GA 181
- Application to evolution
  - Cultural Ages and Epochs
  - All gifts from the gods overcome, replaced through our own efforts
- Something is inwardly active within us – our I

# HOW TO KNOW YOU'RE MODERN

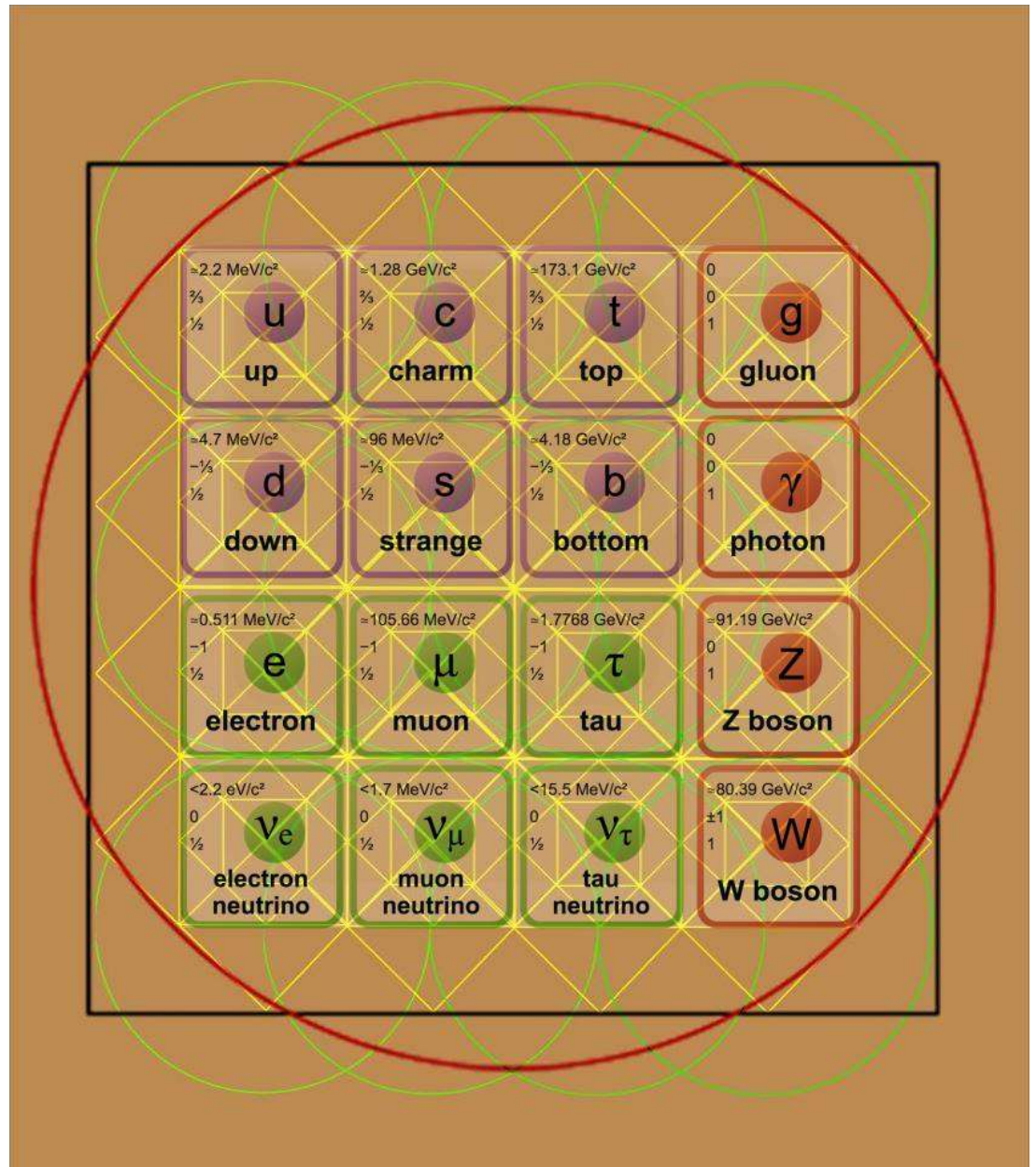
- Food – Fatless
- Desserts – Sugarless
- Cooking – Fireless
- Cars – Keyless
- Tires – Tubeless
- Phones – Wireless
- Dress – Sleeveless
- Youth – Jobless
- Attitudes – Careless
- Relationships – Meaningless
- Feelings – Heartless
- Babies – Fatherless
- Education – Valueless
- Government – Clueless
- Leaders – Shameless & Worthless
- You are – Speechless
- Are we – humanless?



# Approximating a Square Wave



<https://media.giphy.com/media/D870B634olcUE/giphy.gif>







# Science and Engineering

|             | Seeks        | Results in  | Today    |
|-------------|--------------|-------------|----------|
| Science     | Truth        | Knowledge   | Models   |
| Knowledge   | Wholeness    | Engineering | Theory   |
| Engineering | Emancipation | Technology  | Machines |

# What is Technology?

- Tools, limb extenders
- Sense extenders
- Mechanical Machine
- Computer



## Who Triumphed?



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- 4:45—5:45 pm: *State of MysTech, Work to be Done, Social MysTech*

## Sunday, February 23

- 9:00—10:15 am: *Greek Mythology and its Relationship to Our Technological Age*

# EMANCIPATION

- Past
  - From Nature
  - Physical labor
- Present
  - Has Freedom been attained?
  - Mental labor
  - From dead thinking
- Future
  - Illness, Old Age, even Death
  - Immortality (in a cyber world)
  - My Kingdom is not of this world (or that one!)



# WHAT IS HUMANITY'S GOAL?




&



Do we need  
Tech for  
these goals?



- 
- "Anthroposophy is the preparation for everything that will come in the future. Those who take the process of man's evolution seriously resolve not to allow the soul's development to come to a standstill but to ensure that its development will eventually enable the spiritual part of the earth to become free, leaving the grosser part to fall away like a corpse — for human beings could frustrate the whole process. Those who desire evolution to succeed must acquire understanding of the spiritual life through what we today call anthroposophy. The cultivation of anthroposophy thus becomes a duty; knowledge becomes something that we actually experience, something toward which we have responsibility. When we are inwardly aware of this responsibility and have this resolve, when we experience the mysteries of the world so as to arouse in us the wish to become anthroposophists, then our experience is right. Anthroposophy must not, however, be something that merely satisfies our curiosity; it must rather be something without which we cannot live. Only when this is the case do we experience in the right sense; only then do we live as living building stones in that great construction that must be carried out in human souls and that can embrace all humanity..." — Etherization of the blood, 10Oct1911



# Transhumanism and Love

- As technology philosophers have been pointing out for years, now, the transhumanist vision too easily reduces all of reality to data, concluding that “[humans are nothing but information-processing objects.](#)”
- The reduction of human evolution to a video game that someone wins by finding the escape hatch and then letting a few of his BFFs come along for the ride.
- Will it be Musk, Bezos, Thiel...Zuckerberg? These billionaires are the presumptive winners of the digital economy — the same survival-of-the-fittest business landscape that’s fueling most of this speculation to begin with.
- Technology development became less a story of collective flourishing than personal survival. --  
<https://onezero.medium.com/survival-of-the-richest-9ef6cddd0cc1>

# Have Machines Been Helpful In Attaining our Goal?

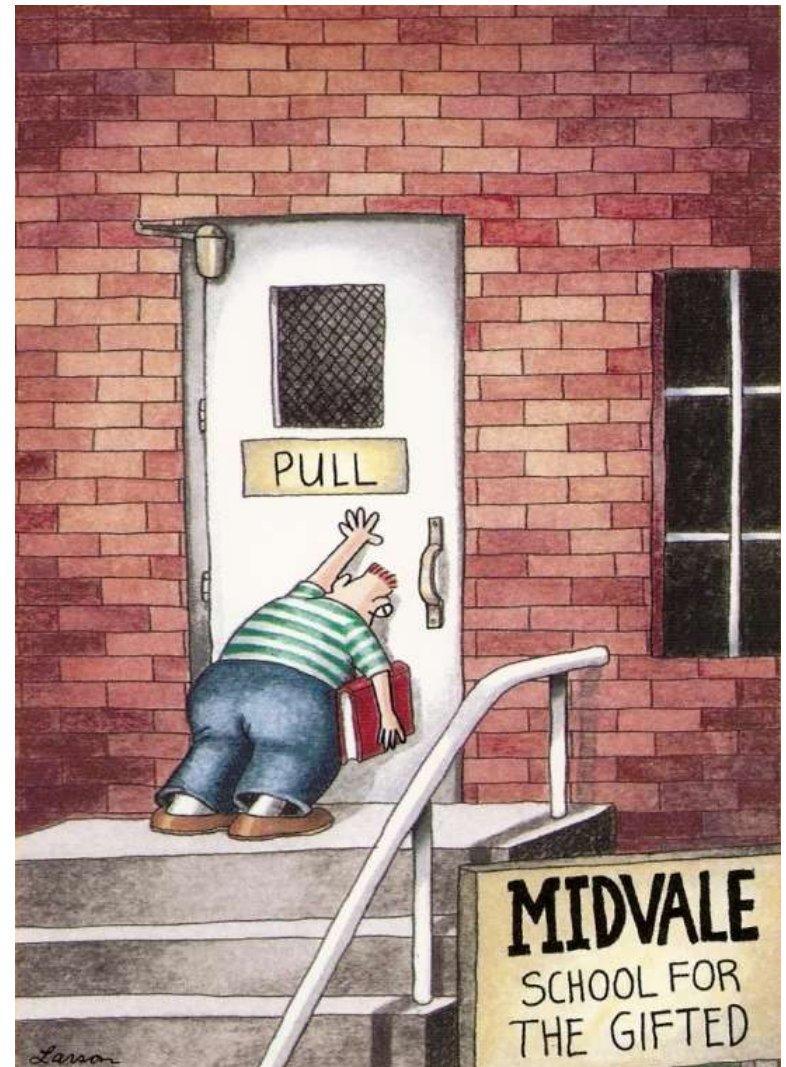
- Labor Emancipation
  - Physical
  - Mental
- More time to learn?



- Robotics
- AI
- Birthing
- Human & Cosmic?

# How Do we learn?

- Soul: thinking, feeling, willing
- Wisdom?
  - From suffering?
  - Temptation and Evil?
- Stunted or Strong Angels?





# Will We Ever Learn?

- “But as civilization goes into its **decline**, from the fifth post-Atlantean period onwards, this element has to come in again, so that **catastrophe may be brought about**.
- Human beings **must use** these powers themselves.
- Ahriman's messengers are therefore an **iron necessity**; they have to bring about the **destruction** that will lead to the **next step forward** in civilization.
- This is a **terrible truth**, but it is so.
- And nothing will avail where this truth is concerned but to **get to know it and to see it clearly**.
  - *Fall of the Spirits of Darkness*, lecture 4, 6Oct1917, GA 177





# Screens, Parenting, and Education

Screen Time (by Victoria Dunkley):

- Disrupts sleep and desynchronizes the body clock
- Desensitizes the brain's reward system
- Linked to depression and suicide (light at night)
- Induces stress reactions, increase irritability
- Brain chemistry shows addiction and hyperarousal
- Overloads sensory system fracturing attention → explosive
- Reduces physical play time needed for muscles, bone, health
- <https://www.psychologytoday.com/us/blog/mental-wealth/201508/screentime-is-making-kids-moody-crazy-and-lazy>

# How many disasters do we face?

Just to name a few:

- Fukushima Nuclear
- Honeybees
- 5G and Safety of Life
- Climate Change
- Robotics and Work
- AI Accidents
- AI Effects on Humanity

“What is Truth?” - Pilate





# Fear as Food

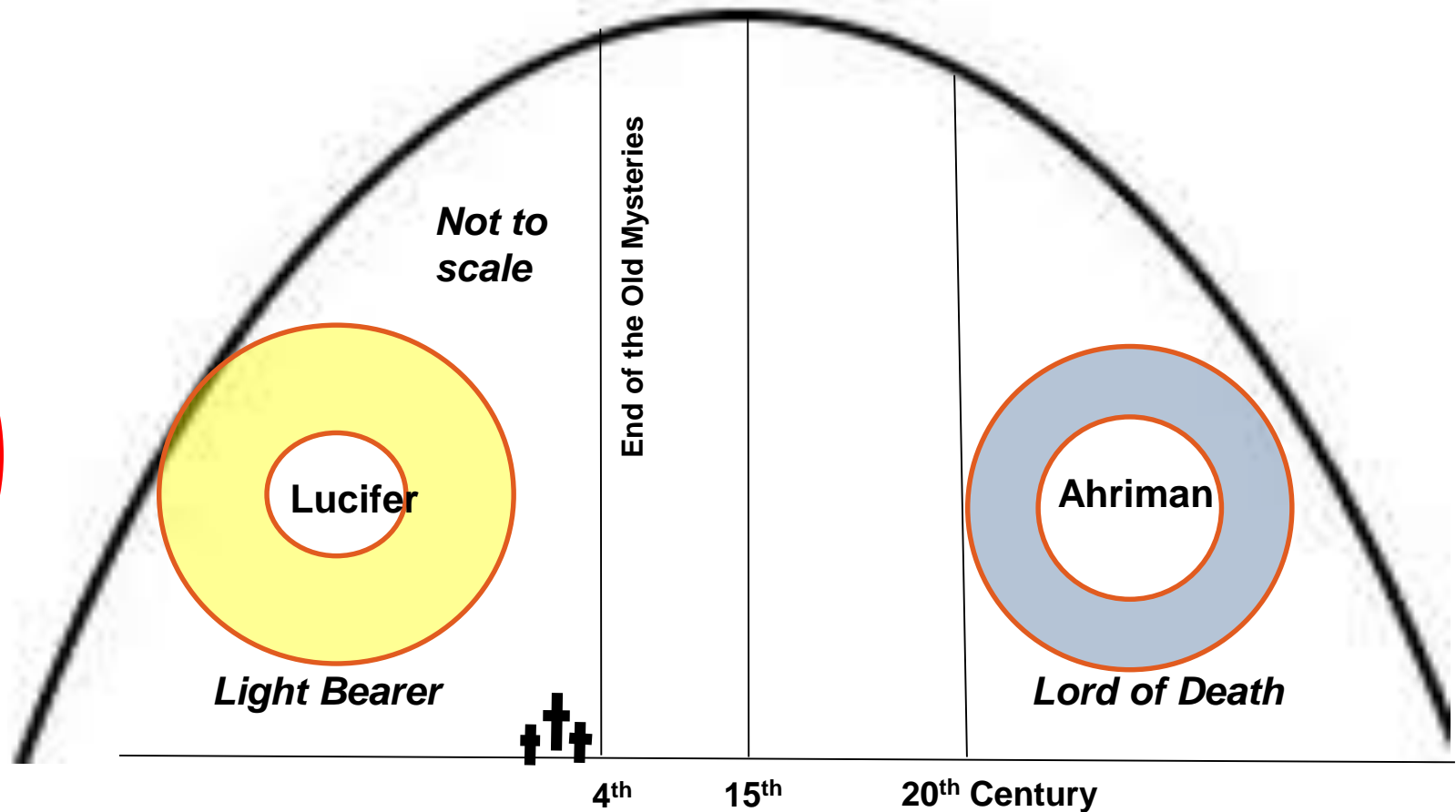
- "There are beings in the spiritual realms for whom anxiety and fear emanating from human beings offer welcome food. When humans have no anxiety and fear, then these creatures starve. People not yet sufficiently convinced of this statement could understand it to be meant comparatively only. But for those who are familiar with this phenomenon, it is a reality.
- If fear and anxiety radiate from people and they break out in panic, then these creatures find welcome nutrition and they become more and more powerful. These beings are hostile towards humanity. Everything that feeds on negative feelings, on anxiety, fear and superstition, despair or doubt, are in reality hostile forces in supersensible worlds, launching cruel attacks on human beings, while they are being fed.
- Therefore, it is above all necessary to begin with that the person who enters the spiritual world overcome fear, feelings of helplessness, despair and anxiety. But these are exactly the feelings that belong to contemporary culture and materialism; because it estranges people from the spiritual world, it is especially suited to evoke hopelessness and fear of the unknown in people, thereby calling up the above mentioned hostile forces against them."
  - Rudolf Steiner – GA 56 – Die Erkenntnis der Seele und des Geistes – Berlin, 12Dec1907

# Facing the Future

- We must **eradicate** from the soul **all fear** and terror of what comes towards Mankind, out of the **future**. We must look forward with absolute **equanimity** to whatever comes, and we must think only that whatever comes **is given us** by a world direction full of **wisdom**.
  - It is part of what we **must learn** during **this age**, namely to act out of pure **trust** in the ever present help of the spiritual world; truly nothing else will do if our courage is not to fail us.
  - Therefore let us **discipline our will**, and let us seek the **awakening** from within ourselves, every morning and every evening.
- Rudolf Steiner (indirectly from a lecture)



# Ahriman Must Have His Incarnation for Cosmic Balance



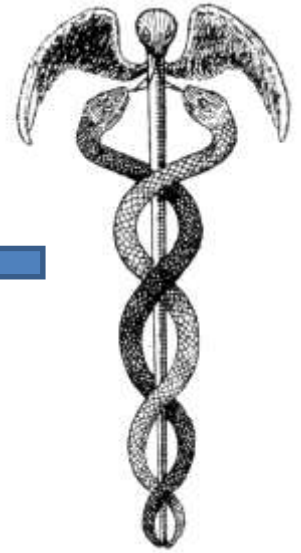


# Lucifer and Ahriman

- Drama on Earth's Human Stage:
  - Downfall of Luciferic
  - **Power of thought**
- Must recognize arrival of Ahrimanic beings within the evolution of mankind
  - We shall not comprehend the human race without taking these beings into consideration

Rise of Ahrimanic

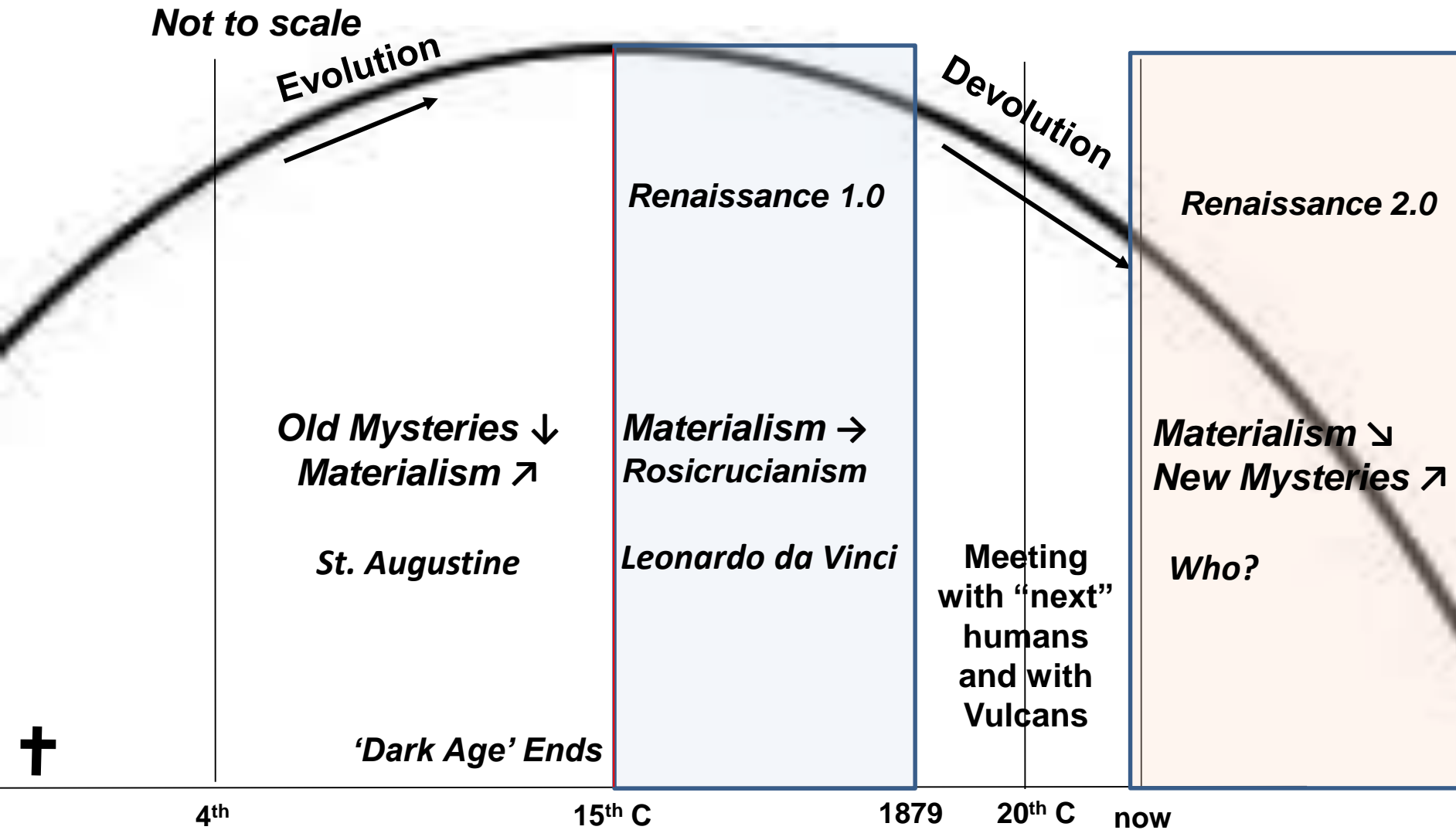
**Human power of will**



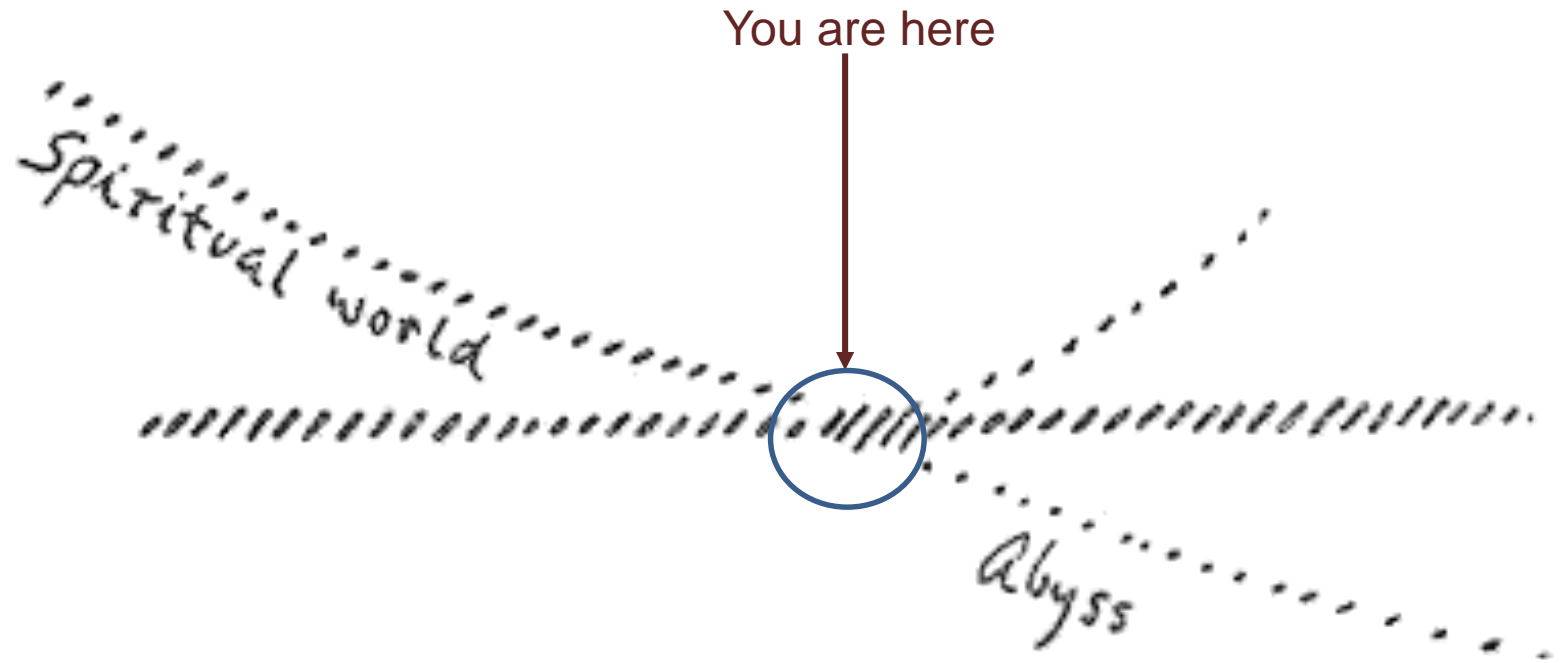
R. Steiner, *The Mission of the Archangel Michael*, The Michael Deed and the Michael Influence as Counter-pole of the Ahrimanic Influence, 29Nov1919, GA 194



# Closeup: Post Atlantean Evolution



# Apocalypse: Critical Point in Evolution



## Spiritual evolution

Descend

Ascend

## Earthly evolution

Ascend

Descend

# Mid-Point Changing of the Guard

- After 15<sup>th</sup> Century – beings ascending, finished work
- Spirits of Personality (Archai) to level of Exusiai (Form)
- Archai do not intercede but wait for us to rise to them

- **Cosmic:**
- **Freedom**
- Michael
- 1879 on
- Vulcans



- *Evolution towards Jupiter has begun!*

# Now in Devolution – Get Used to It!

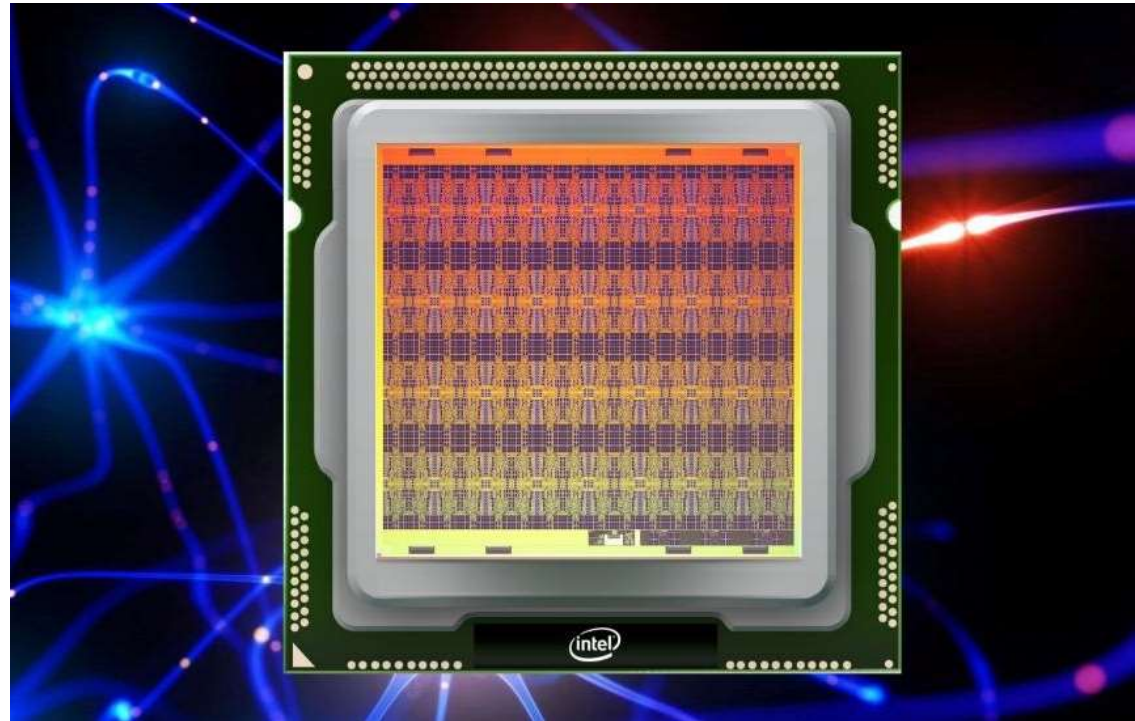
- “We really are no longer in this world to take care of our own organization; we do **still incarnate, but no longer in order to take care of our own organization**
- This organization evolved until ancient **Greek times** when, **human bodies were as perfect** as they can be during time spent on earth
- Now, we are really here to be part of a **downward curve** of evolution, to incarnate in order to learn and experience all manner of things by the very fact that we are in **bodies which are dying, increasingly crumbling and withering** away
- The fact is that anything we **inwardly develop** and inwardly are, will **no longer** become *part of* the **outer physical body**
  - The Exusiai are moving on, the Archai are taking over ...
- Consequence will be **all kinds of changes in development”**

R. Steiner, *Fall of the Spirits of Darkness*, lecture 5, 7Oct1917, GA 177



# Imitating the Human Brain

- Loihi by Intel
- Neuromorphic
- AI with on-chip learning
- Programmable synaptic learning



# Arrival of Next Humans



- They will be on the **human stage of Jupiter**
  - **As we were to those on the human stage of Old Moon**
- “Behind them there stands the Ahrimanic power which endows them **with their strong will power**
  - Pours into them their directive forces, pushes from behind
  - Sub-human beings controlled by higher Ahrimanic spirits
  - They contain something which far surpasses their own nature and being
- “They show something in their appearance which, if it takes the human being **captive**, acts very much more strongly than that which the weak human being can control today
  - **Only by spiritual strengthen can we confront this”**
- R. Steiner, *The Mission of the Archangel Michael*, The Michael Deed and the Michael Influence as Counter-pole of the Ahrimanic Influence, 29Nov19

# Aim of These Ahrimanic Beings

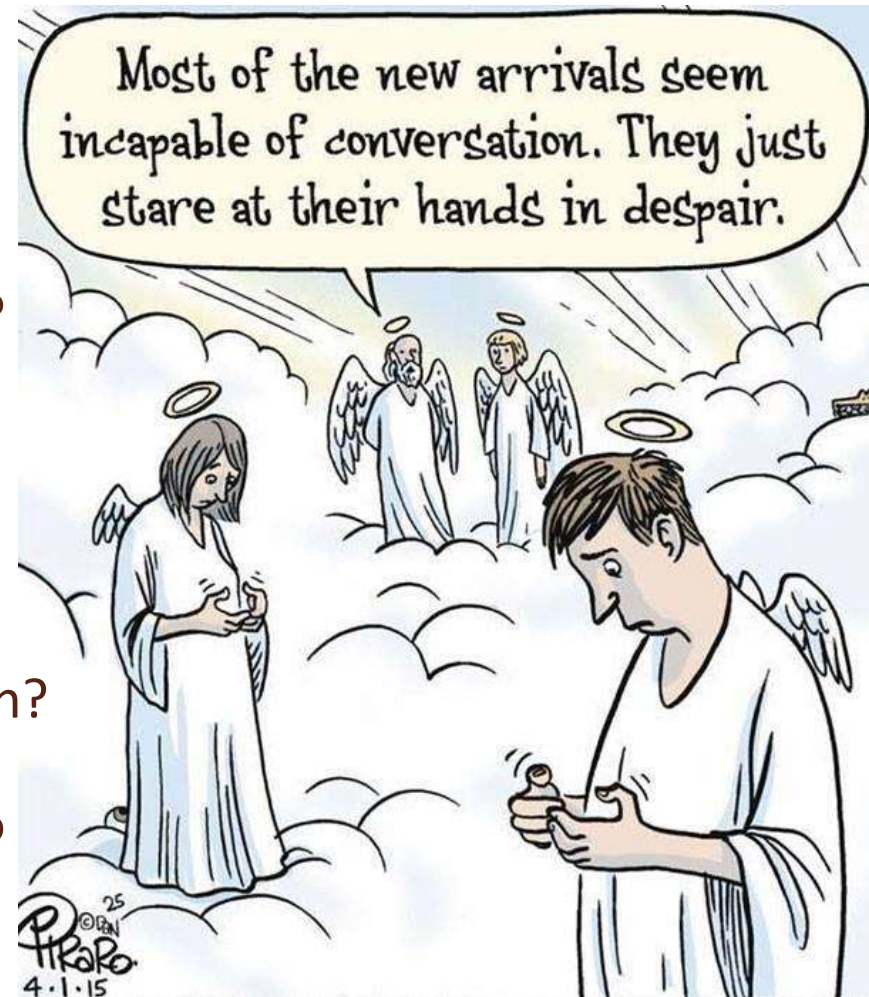


- What is the aim of this Ahrimanic host?
  - Permeation of **human willing**
    - As the Luciferic hosts, which Michael has pushed down, have aimed at **human illumination**, at permeation with reason
- And what do they want? To explore being human!
  - They burrow, as it were, in the deepest stratum of consciousness in which the human being is still asleep today in his waking state – human will
  - Man does not notice **how** these beings **enter his soul and also his body**
  - Here they suck in everything that has remained Luciferic, that has not become Christ-permeated
  - This they can reach: this they can take possession of
- R. Steiner, *The Mission of the Archangel Michael*, The Michael Deed and the Michael Influence as Counter-pole of the Ahrimanic Influence, 29Nov19

# Becoming Stunted Angels?

- Arriving too soon?
  - Right speed, fullness, strength
  - Opportunities to attain higher members from Ahriman
- How do we develop strength?
  - Overcome obstacles
- God instructed Dynamis
  - For Old Moon
  - War in Heaven – asteroid belt
  - Some angels ‘fell’
- Old Moon different from Earth?
  - Hardening, matter
  - Why? Development of the Ego

- From *Universe, Earth, and Man*, GA 105



# Link Between Thinking and Machines?

- All Luciferic thoughts not permeated by Christ become doors for Ahrimanic thinking to enter
- “Gradual development of these still imperfect, primitive machines into a kind of machine which depends upon vibrations, and where the aim is to make the machines effective by means of vibrations or oscillations, by means of movements which run a periodic course.
- “Everything is hastening towards such machines.”

*Man as Symphony of the Creative Word, lecture 2, 20Oct1923, Dornach, GA 230*





# Link Between Thinking and Machines?



“Hitherto undiscovered forces **within human nature** will be discovered, **forces that will work on outer electric and magnetic forces.**

The first problem is to **bring together human beings with the mechanical**, which will have to prevail increasingly in the future. The second problem consists in **calling upon the help** of the spiritual circumstances.”

-- *Reappearance of Christ in the Etheric*, lecture 12, 25Nov1917, Dornach, GA 178

“how the motions of human moods allow themselves to be translated into wave motions on machines”

*Reappearance of Christ in the Etheric*, lecture 12, 25Nov1917, Dornach, GA 178



# Link Between Thinking and Machines?

*“When a ray of light streams into your eye, the sun spirit is streaming in with that ray of light. The spirit of the sun is the substance of the **finer breathing**. With our sense perceptions, we breathe in the manifold ingredients of the spiritual sun. You have there an important view of the human being from one direction. **As one unfolds in an etheric body, one develops in the etheric body thinking** - the thought of the universe.”*

-- *Pastoral Medicine*, lecture 8, 15Sep1924, Dornach, GA 318



# Christ Between Intellect and Will

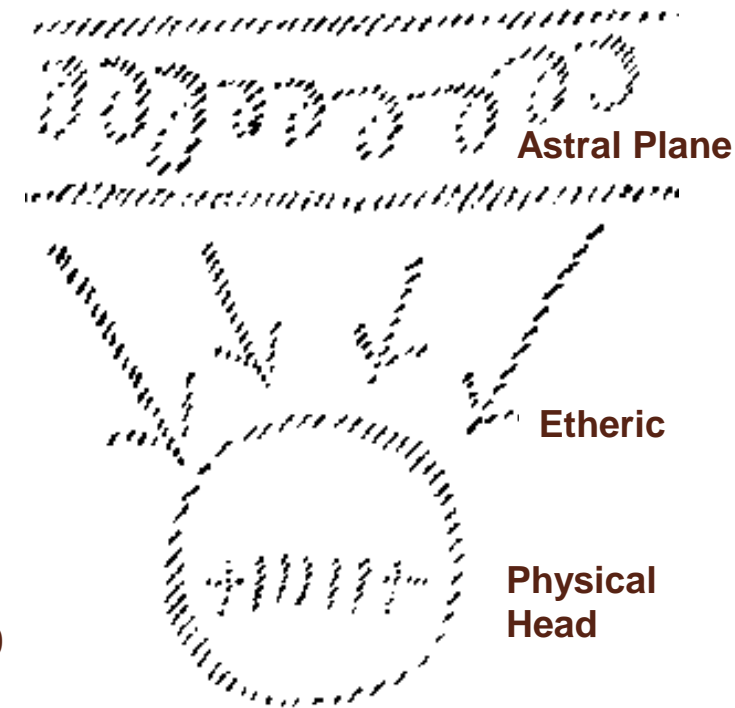
- The necessity of the Christ impulse
  - One must recognize **where the Christ impulse is lacking**
- **Christ impulse:**
  - **Middle stratum** of consciousness
- If man really permeates himself with the Christ, then these Ahrimanic powers **cannot penetrate** upward through the middle stratum
  - Then they cannot, with their spiritual forces, pull down the intellectual force
  - **Everything depends on that**
- R. Steiner, *The Mission of the Archangel Michael*, The Michael Deed and the Michael Influence as Counter-pole of the Ahrimanic Influence, 29Nov19



# But What is Human Thinking?

- Human thinking is the **shadow-image** of mental pictures and beings belonging to the astral plane
- Thoughts that are in the head must be pictured as living beings on the astral plane
  - Beings of the most varied kinds are at work there
  - Their mental pictures and deeds cast their shadow-images
  - These processes are reflected in the human head as thinking
    - Footprints – blood flow
  - Continuous streams move between astral plane and head

*The Etherization of the Blood, 1Oct1911, GA 130*





# Lecture Schedule

## Friday, February 21

- 8:00—9:30 pm: *The Iron Necessity of Our Technological Age*

## Saturday, February 22

- 9:45—10:45 am: *The Human Double and Its Future*
- 2:30—3:30 pm: *Ahriman's Gift—Emancipation from Dead Thinking*
- 4:45—5:45 pm: *State of MysTech, Work to be Done, Social MysTech*

## Sunday, February 23

- 9:00—10:15 am: *Greek Mythology and its Relationship to Our Technological Age*



**OK, THAT'S** THE  
FAR FUTURE,  
WHAT ABOUT  
THE PRESENT?



# Preparing for modern Life



## Generational Differences



# Using Tech to help lead normal lives



# Prosthetics and Bionic Limbs



# Bionics Becoming Affordable

- Made with \$2000 3D Printer and inexpensive materials
- More: <https://www.youtube.com/watch?v=A6isKsPWubA>



# Restoring Normalcy after tragedy

- What is the human experience?
- Does the bionic become a member of the body?
- Can a soul feel this to be a part of its body?
- What does this mean for human evolution?



# What Can We Fall In Love With?

A person with:

- Bionic finger?
- Bionic arm?
- Bionic arm & a leg?
- Can we love a person
  - With a pace maker?
  - Transplanted face ?
  - Who we know only through their avatar?
- Love is our goal





Where Will  
This Lead?







# Physical Body as a Machine

- “Meditation influences the work of the astral body upon the physical and etheric bodies during the night.
- Only **beneficent beings must be allowed access to the human being** ... He who seeks initiation must achieve the utmost calm. This includes the avoidance of all stimulants, alcohol.”
- “The relation of the astral body to the physical body, is like that of a **workman to his machine**, but with the difference that in this case the workman is in the machine, **he ensouls** the various parts, and makes them move.
- This **resemblance of worker to machine** applies even better when the person lies asleep. The astral body then works from outside. What does it do? It makes good the damage suffered by the physical body during the day.”

-- *The Gospel of St. John*, 26Feb1906, Berlin, GA 94

# The Power of the Human Soul

- Telephone: space
- Email: time?
- Video Conferencing ?
- Automobile: ?
- Gradual Evolution
- Operate 'within' a robot? Avatar?



# Wearable Robotics

- Exosuits
- Super Powers
- Physical Body Augmentation
- Gender equality for jobs
- Accidents: who's responsible?
- Would you replace your limbs for super powers?
- Will we as our bodies “wither”?



# Merging Man and Machine

(Lots of Steiner Quotes to follow)



- “The **welding** together of human beings with machines will be a great and important problem for the *rest of the earth-evolution*.
- “The **will** is there to harness human energy to **mechanical energy**
- It is not a question of **what**; the what is sure to come; it is a question of the **how**, how one tackles these situations”
  - Rudolf Steiner, *The Reappearance of Christ in the Etheric*, lecture 12



# Steiner on Facing Human-Mechanical

- **These things should not be treated by fighting against them – that is a completely false view”**
- These will not fail to appear; they will come
  - What we are concerned with is whether, in the course of world history, **they are entrusted to people who are familiar in a selfless way with the great aims of earthly evolution and who structure these things for the health of human being** or whether they are enacted by groups of human beings who exploit these things in an egotistical or in a group-egotistical sense”



# Merging Man and Machine

- “I have often pointed out, even in public lectures, that human **consciousness depends on destructive forces**.
- During public lectures in Basle I twice said that in our **nerve-system we are always in process of dying**. These *forces of death* will become stronger and stronger, and we shall find that they are *related to the forces of electricity* and magnetism, and to those at work in machines.





# Merging Man and Machine

- For more on the destructive quality of technology, read lecture 4, *The Fall of the Spirits of Darkness*
  - Elementary Spirits of Birth and Death
- “Fifth post-Atlantean period will have to solve the problem of how human moods, the **motions of human moods**, allow themselves to be translated into **wave motions on machines**, how man must be brought into connection with *what must become mechanical*”

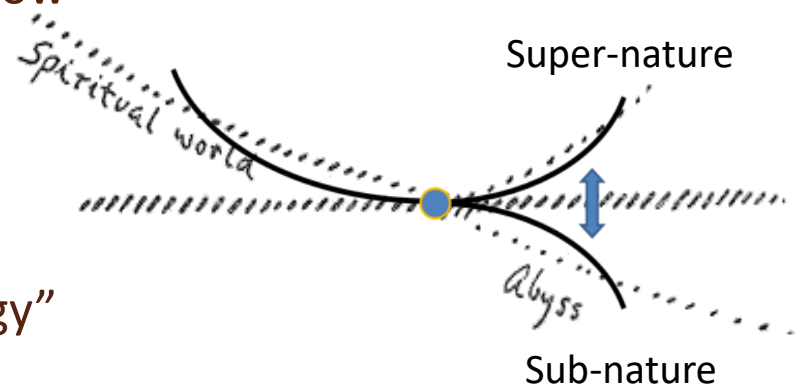
# Merging Man and Machine



- **A man will be able in a certain sense to *guide his intentions and his thoughts* into the forces of the machines. Forces in human nature that are still unknown will be discovered — *forces which will act upon external electricity and magnetism.***
- That is one problem: the bringing together of human beings with machines, and this is something which will exert ever-increasing influence on the future.” -- *The Wrong and Right Use of Esoteric Knowledge*, lecture 3, 25Nov1917, Dornach, GA 178

# Overview of MysTech

- Melding Human and Machine
  - What are machines doing to us?
  - Artificial intelligence and soul
  - Counter-balances
- Machines and Evolution
  - Evolution of humanity and the earth
    - Sub-nature, last Letter to Members
  - Co-creation of Jupiter begins now
- Confronting Ahriman
  - The human double
  - Electricity: is it Evil?
  - Developing a “moral technology”



# Vibratory Implementations

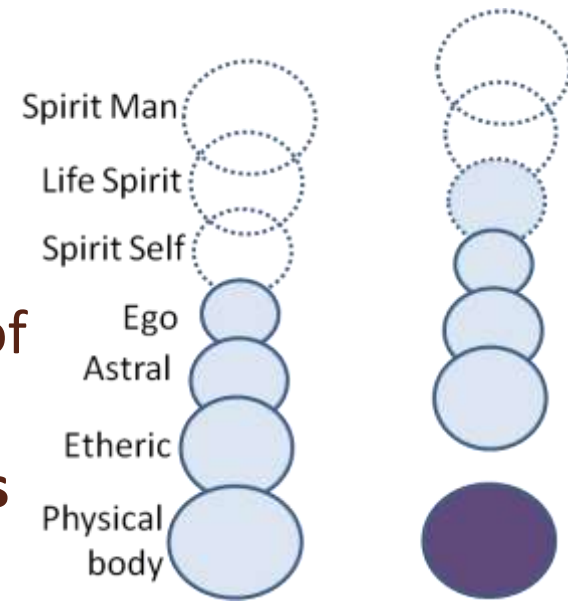


- Right Way
  - From what comes from Pisces and Virgo cooperatively, one will not be able to bring about anything harmful
  - Morning and evening forces placed at the service of humanity
  - Great temptations will emanate from these mechanized beasts
  - Their force of intelligence offers emancipation from labors
- West's Wrong Way
  - Midday process using Gemini with the dead
- East's Wrong Way
  - Midnight process using Sagittarius with cow's digestive process
  - Conjure up on the earth a mechanistic system fitting exactly into the mechanistic system of the universe

References: *Reappearance of Christ in the Etheric*, lecture 12 and *Man as Symphony of the Creative Word*, lecture 2

# Future Physical Body

- “Man will bring about the future form of his body. Inasmuch as the human being becomes softer and softer, **inasmuch as he separates himself from the hard parts, he is approaching his future**
- An age comes when man will **live above his earthly portion** as it were, as in time gone by
- This condition, which is comparable to your present sleep-condition, will then be replaced by another when the human being will be able to **draw his etheric body out of his physical body at will**
- *Theosophy of the Rosicrucian, Lecture 13, The Future of Man, 5Jun1907, Berlin, GA 99*



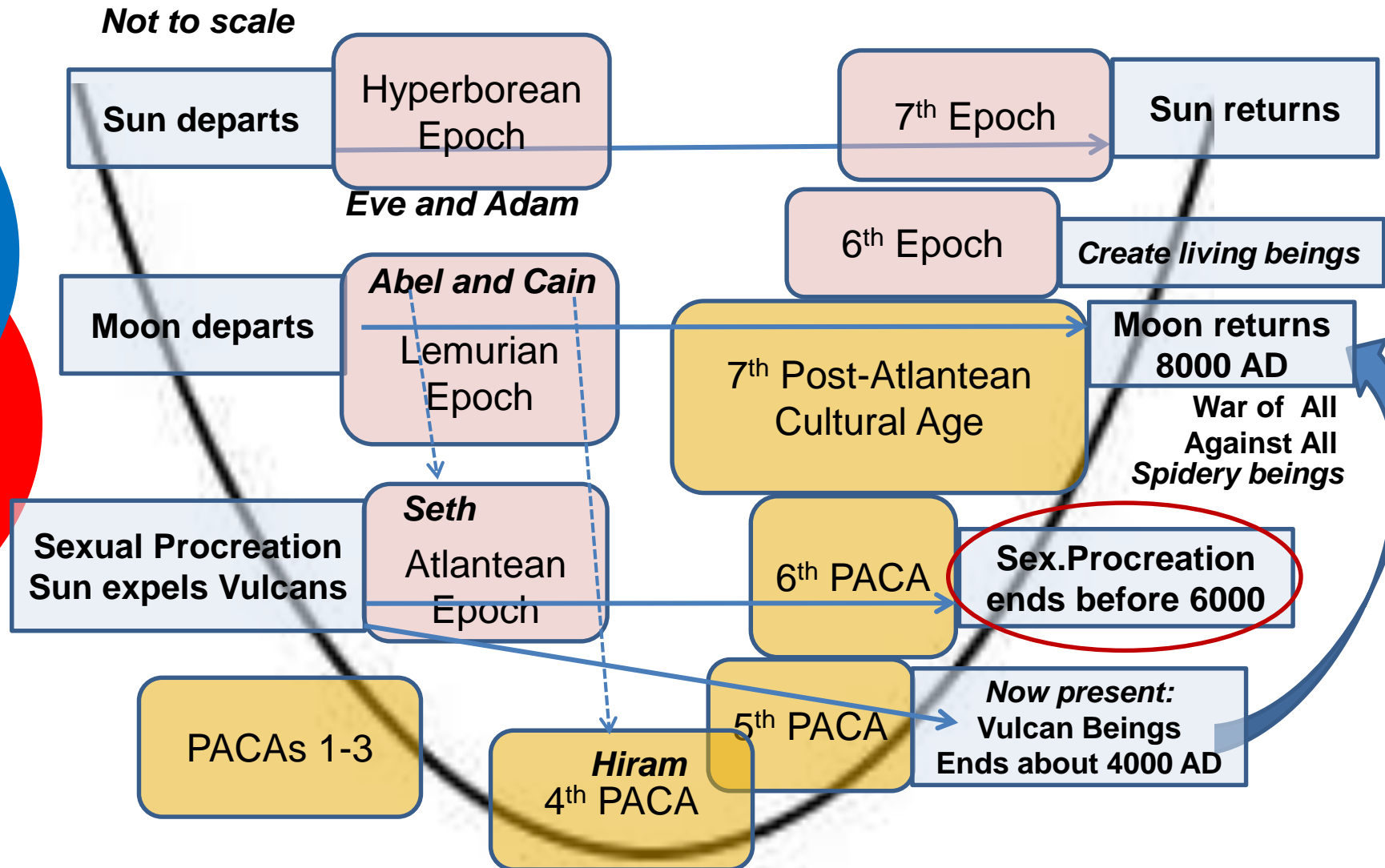
# Changing the Physical Body

- “It will be as if the **denser part** of man were here **below on earth** and the human being will **make use of it** from outside **like an instrument**”
- Man will **no longer bear his body about and live within it**, but will float above it, the body will itself have become rarefied and finer”
- *Theosophy of the Rosicrucian*, Lecture 13,  
*The Future of Man*, 5Jun1907, Berlin, GA 99
- Avatar time?
- Transhumanism?





# What Time Frame are we talking about?

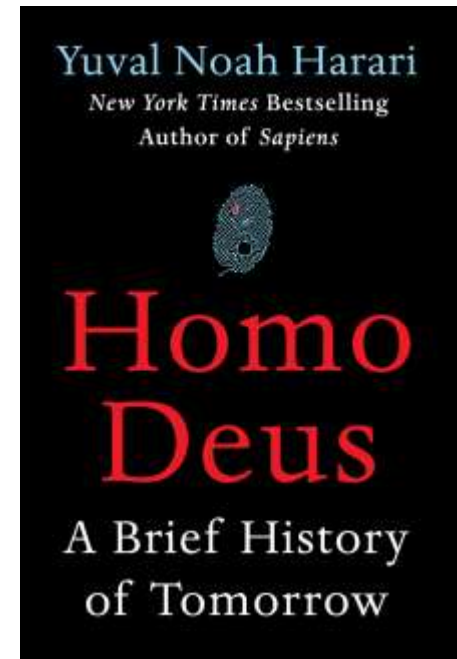
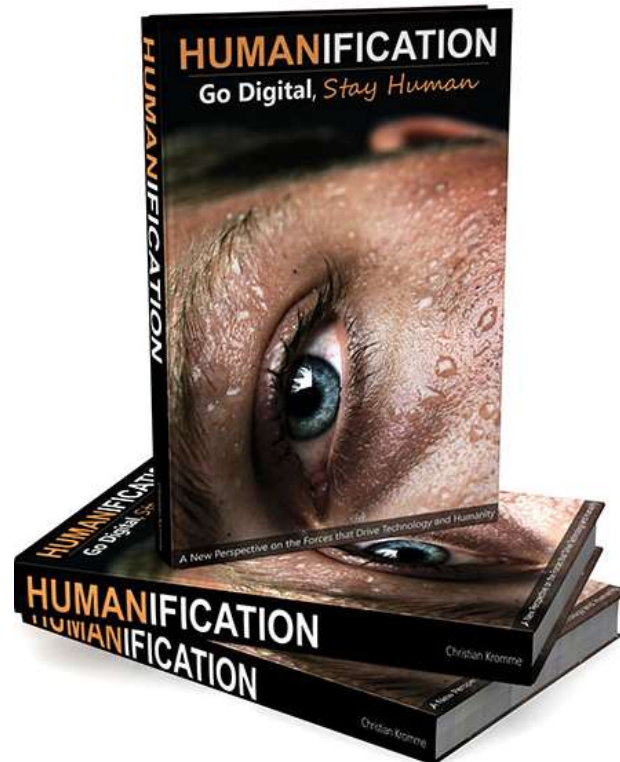




# Any Help Through Our 7<sup>th</sup> PACA?

- Human fertility which depends on the powers of light for its impulses will **come to an end** during the 6<sup>th</sup> PACA
- The **powers of darkness will have to intervene** so that the affair **may continue for a time**
- **6<sup>th</sup> PACA: Seeds** for it lie in the **East of Europe**
  - Develop powerful tendencies which do not allow physical human reproduction to continue beyond the 6<sup>th</sup> PACA
  - Let the earth to enter into a form of **existence in soul and spirit**
- **7<sup>th</sup> PACA: procreation** will be guided by impulses from the **cast-down Angels**, will come from **America**  
[What kind of bodies are these?]

R. Steiner, *Fall of the Spirits of Darkness*, lecture 14, 28Oct1917, GA 177



WHAT HAPPENS IF/WHEN WE NO LONGER HAVE A PHYSICAL BODY?

Many authors artistically feel this future



# Ending of Physical Bodies

- “In a time not all that far ahead, possibly as early as the 7<sup>th</sup> millennium, **all women will be infertile on earth**”
    - **Withering and crumbling of human bodies**
    - Long before the earth has gone through all its stages
  - People would ***no longer find anything to do on earth***
    - Relationship between **inner life & physical body** must change
    - Must **find a different way** to relate to earthly existence
    - “**final stages of earth evolution will make it necessary for them to do without physical bodies and yet *be present on earth***”
- R. Steiner, *Fall of the Spirits of Darkness*, lecture 5, 7Oct1917, GA 177



# End of Incarnation in 6<sup>th</sup> PACA

- “A time will come in the physical evolution of the earth — it will be **after** the **year 5,700** — when, if he fulfils his rightful evolution, man will no longer tread the earth by incarnating in bodies derived from physical parents.
- “In that epoch, women will be barren; children will no longer be born **in the manner of today**, if evolution on the earth takes its normal course.”

-- *Some Conditions for Understanding Supersensible Experiences*, 18Jan1920, GA 196

- We will NOT procreate through the Larynx until Jupiter (mineral), Venus (plant), Vulcan (animal & self)
  - Theosophy and Rosicrucianism, lecture 13, 28Jun1907, Kassel, GA 100



# SHOULDN'T INCARNATION CONTINUE?

- “One of the endeavors of the **Ahrimanic Powers** is to keep humanity fettered too long to the earth in order to divert it from its normal evolution.
- The **Ahrimanic Powers**, which under the influence of the impulses working in men today are becoming extremely strong, might succeed in preventing earth-evolution in a certain respect.
- It would then become possible for men — by no means for their good — to be **held in the same form of physical life** beyond this time in the 6<sup>th</sup> or 7<sup>th</sup> millennium. They would become much more like animals, while continuing to be held in the grip of physical incarnation.”

*Some Conditions for Understanding Supersensible Experiences, 18Jan1920, GA 196*





# Ugh! How Long Will This Last?

- “However, if men really take hold of the best possibilities for their evolution, then in the 6<sup>th</sup> millennium they will enter for a further **2,500 years** into a connection with the earthly world of such a kind that they will, it is true, still have a relationship with the earth, but a relationship **no longer coming to expression in the birth of physical children.**”  
- *Some Conditions for Understanding Supersensible Experiences*, 18Jan1920, GA 196
- “The Exusiai have given form to the crystal which we extract from the Earth, just as we build our monuments and our **machines**. Just as in the past the Gods created the mineral world from a chaotic mass, so our cathedrals, inventions and even our institutions are the germs from which a future world will come to birth. **Neither cathedrals nor machines have been built in vain.**” - *An Esoteric Cosmology*, lecture XV, GA94



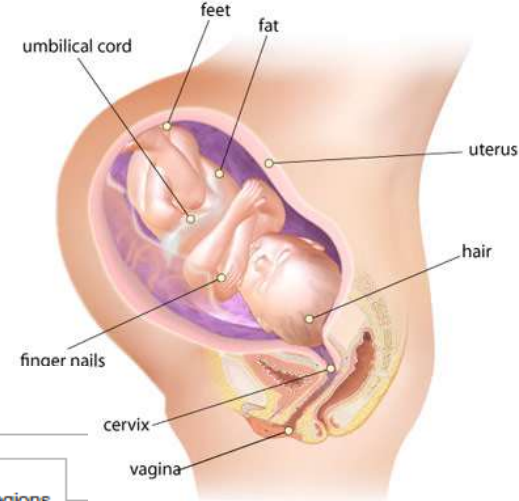
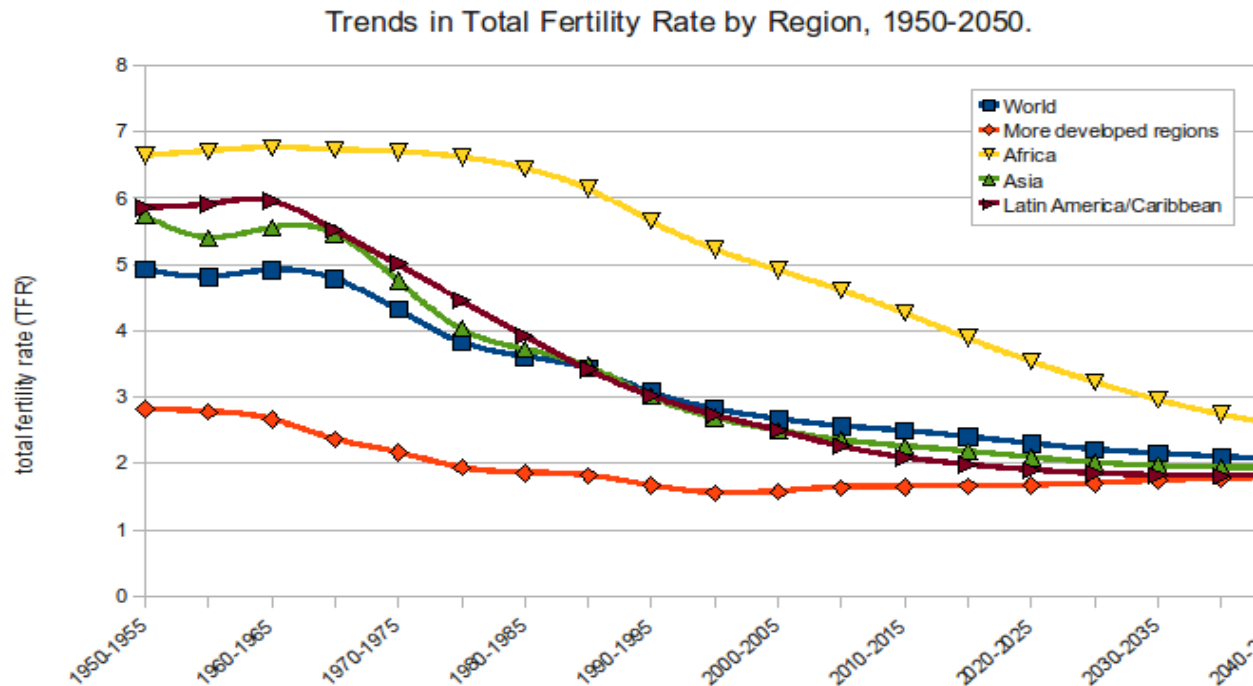
## Fact Check:

IS FERTILITY  
ALREADY  
CHANGING?



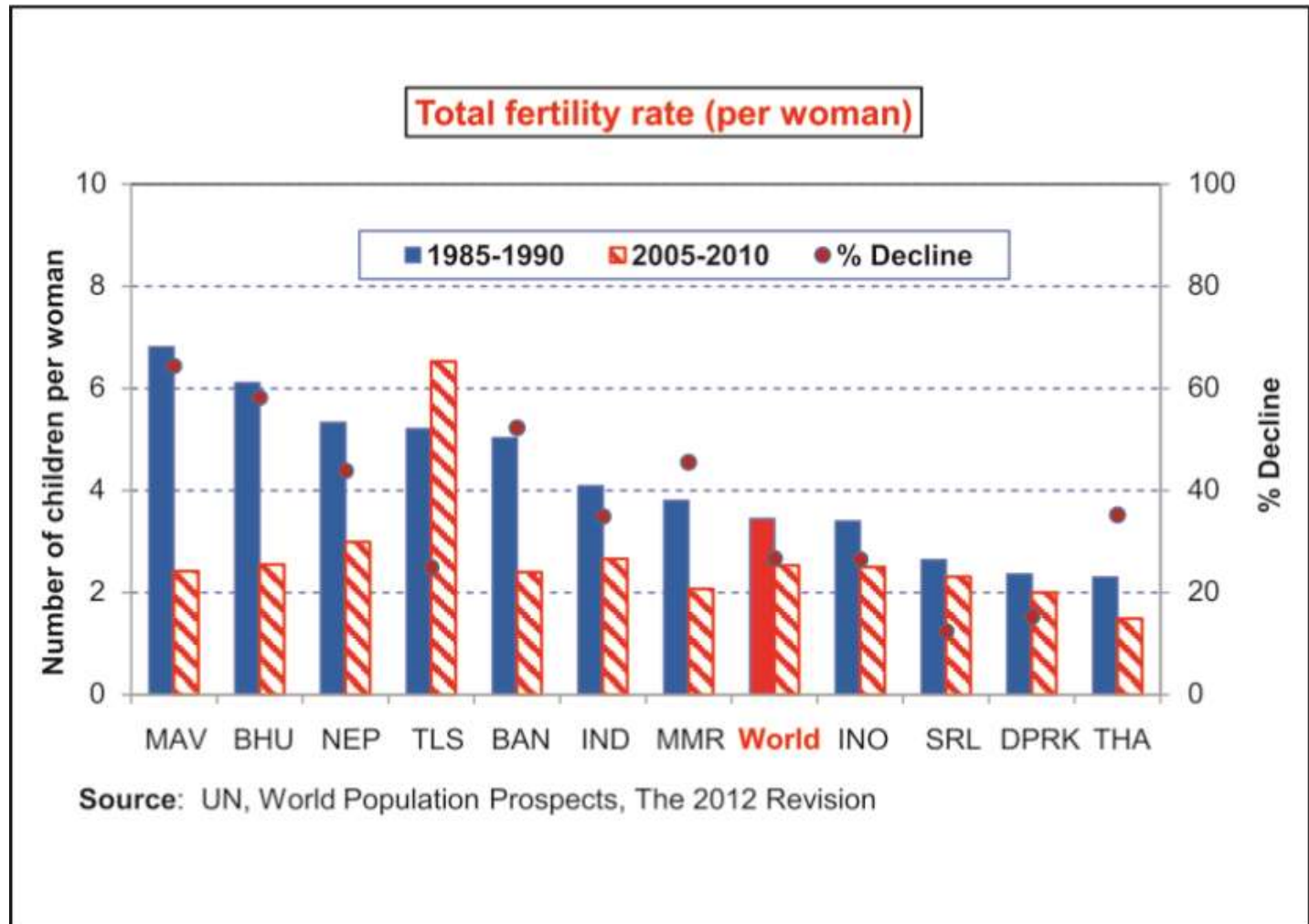
# USA Fertility Rate

- Millennials prefer pets over children

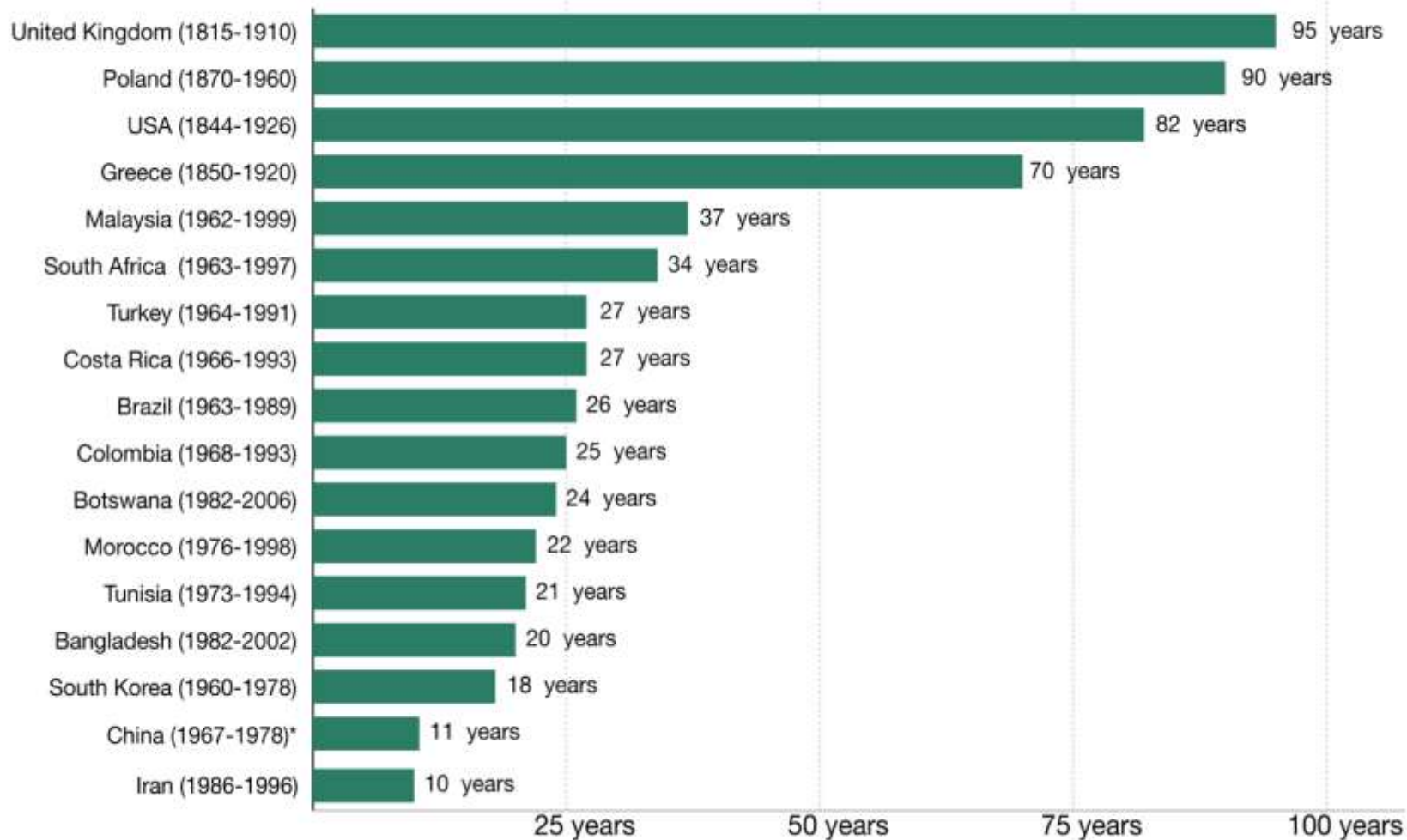


- 1957: 122.9 births per 1,000 women
  - 2016: 59.8 births per 1,000 women
- > 50% decline in 59 years!

# Note the Trend



# How long did it take for fertility to fall from more than 6 children per woman to fewer than 3 children per woman?






\* The one-child-policy in China was introduced after the decline of the total fertility rate below 3. It was introduced between 1978 and 1980.

Data source: The data on the total fertility rate is taken from the Gapminder fertility dataset (version 6) and the World Bank World Development Indicators.

The interactive data visualization is available at [OurWorldinData.org](https://ourworldindata.org). There you find the raw data and more visualizations on this topic.

Licensed under CC-BY-SA by the author Max Roser.

# Example: Malaysian Birth Rate

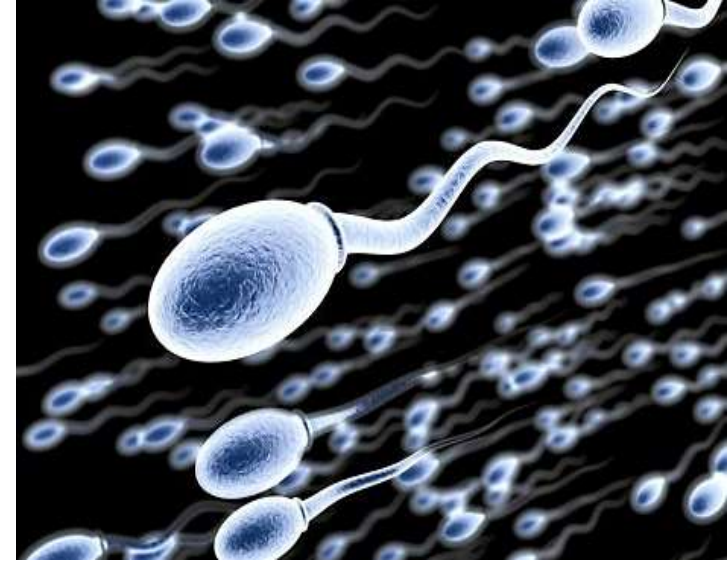
| Average birth rate per family among 3 races |  |   |  |
|---|--|---|--|
|   | Chinese  | Bumiputra   | Indian   |
| 1957  | 7.4  | 6.1   | 8.0  |
| 2015  | 1.4  | 2.7   | 1.4  |
|   |  |  |  |

Source: Department of Statistics Of Malaysia



# Rising Male Infertility

- Landmark study of 2017:  
Western sperm count: 59% drop from 1973 to 2011 (38 years)
  - <https://www.nytimes.com/2017/08/16/health/male-sperm-count-problem.html>
- New study: sperm quality falling by 2% per year
  - Based on study of 124,000 men reported in 2018
  - Also separate research on 2,600 sperm donors matches
  - Male fertility is falling every year in the Western world
  - Experts blame chemicals and modern lifestyles
- While most men can still father a child, scientists say the human race faces extinction if the trend continues



spirit

soul

life



WILL WE THROW OUT THE  
BATHWATER WITH THE BABY?

# Overcoming Infertility

- Engineering embryos
  - From multiple “donors”
  - 3-Parent babies
    - Now [legal in England](#)
- Creating babies from skin cells
  - [In-Vitro Gametogenesis](#) (IVG):
  - Lead to embryo “Farms”?
    - Replace sperm banks with skin banks
    - Redefines “having some skin in the game”
  - Select best from 100s, 1000s (if rich enough)
    - Today: destroy the ‘waste’
  - Is this the future Eugenics?

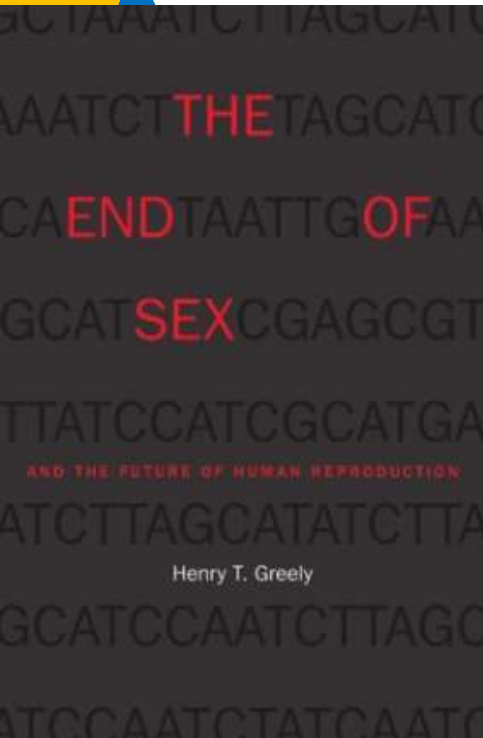


# Future of Incarnating in the West

## Bioethics

### *The End of Sex and the Future of Human Reproduction*

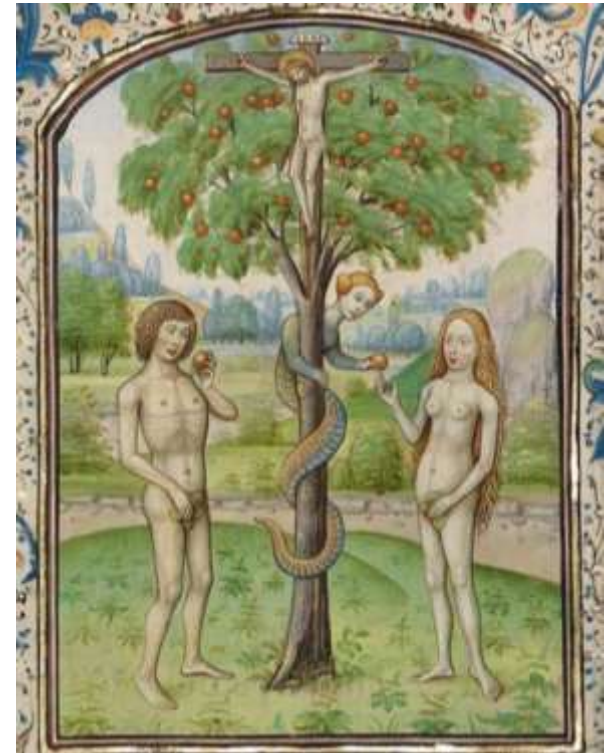
- Henry Greely, professor law and genetics at Stanford, bioethicist
- Preimplantation Genetic Diagnosis (PGD) **selects embryos free from specific inherited diseases** (today, what happens tomorrow?)
- Take a cell from each early embryo, **screen its DNA** for inherited mutations, and then decide **best one** to implant
- Use DNA sequencing to provide parents with **genetic likelihoods**





# Future of Incarnating in the West

- A return to **asexuality**?
  - Possible to generate eggs from male skin cells
    - Cheaper and much easier than harvesting eggs from ovary
  - Sperm from female skin cells
- References:
  - *Egyptian Myths*, Lecture 8, GA 106
  - *Genesis*, Lecture 10, GA 122
  - *Temple Legend*, Lecture 18, GA 93



|            |         |            |      |            |         |             |            |               |         |         |
|------------|---------|------------|------|------------|---------|-------------|------------|---------------|---------|---------|
| bə-yō-wm   | 'ā-dām, | šə-mām     | 'et- | way-yiq-rā | 'ō-tām, | way-bā-rek  | bə-rā-'ām; | ū-nə-qē-bāh   | zā-kār  | 'ō-tōw. |
| בְּיוֹם    | אָדָם   | שְׁמָם     | אֶת- | וַיִּקְרָא | אֹתָם   | וַיְבָרֵךְ  | בְּרָאִים  | וַיִּנְקְבָהּ | זָכָר 2 | אֹתוֹ:  |
| in the day | Man     | their name | -    | and called | them    | and blessed | He created | and female    | Male    | him     |
| Noun       | Noun    | Noun       | Acc  | Verb       | Acc     | Verb        | Verb       | Noun          | Noun    | Acc     |

# Emancipation from Birth Labor

- CRISPR
  - Edit for best
  - Rid the worst
  - Mutations?
- Ready-made adult
  - Who needs childhood?
  - Shed like snake skin
- Will a bionic robotic unit be your next incarnation?





# Future of Incarnating in the West

## Bioethics

- “We cannot fully guarantee your child will be healthy, but here are over 4,000 diseases your ‘engineered’ child won’t have”
- You spend \$30,000 on getting desired car; how much is the healthy baby that you want worth to you?
- What’s the 21-year cost of a baby? In 2100?
- Can you still afford a baby?
- How many will we have?



How long will the harvest of eggs and sperm last?



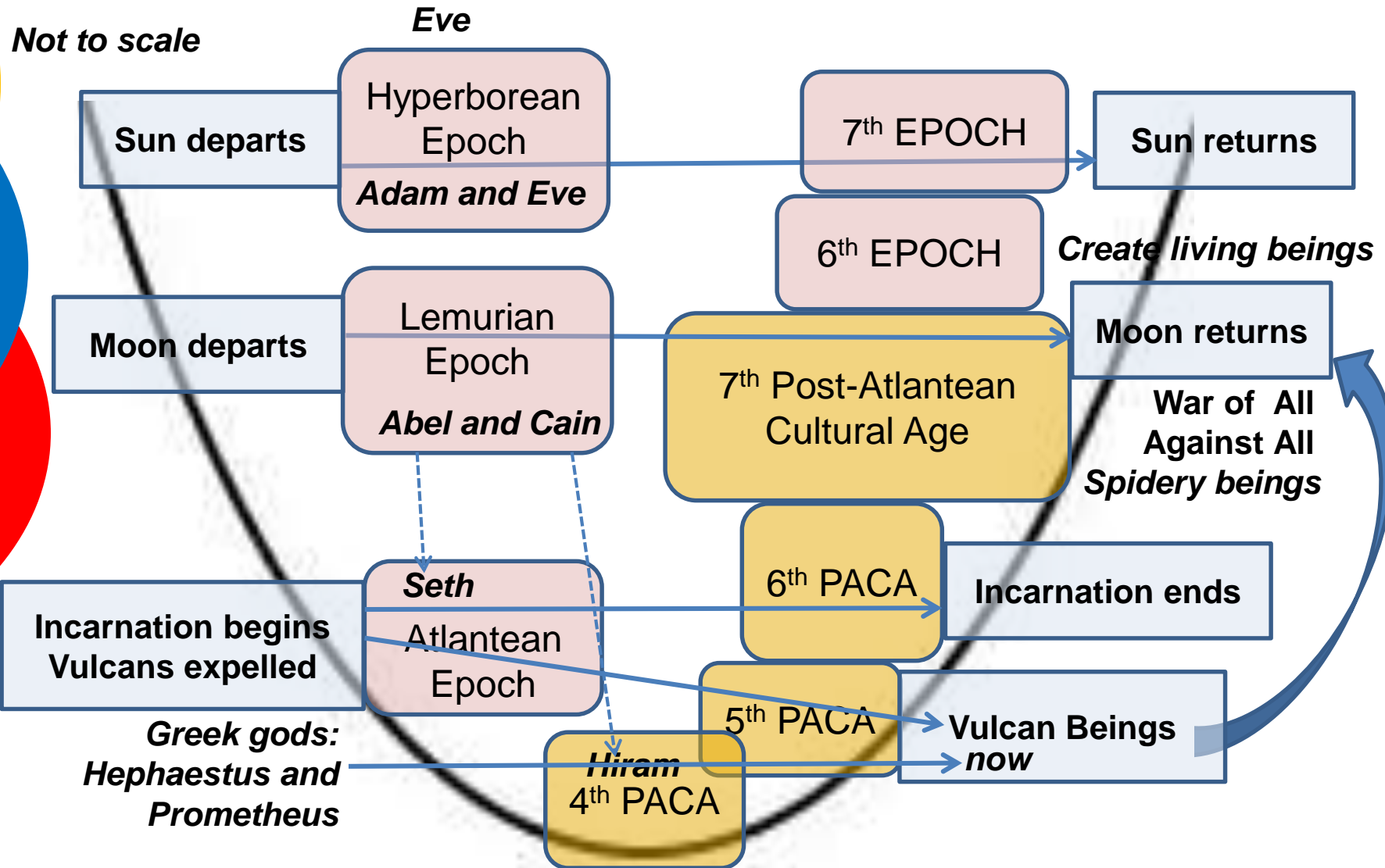
*Credit: Partridge et al./Nature Communications*



# Changing the Physical Body

- “It will be as if the denser part of man were here below on earth and the human being will make use of it from **outside like an instrument**
- Man will **no longer bear his** [physical] **body about and live within it**, but will float above it, the body will itself have become rarefied and finer” *Theosophy of the Rosicrucian*, Lect. 13, *The Future of Man*, 5Jun1907, Berlin, GA 99
- The human soul can learn to know its own being only when it becomes **independent** of the body
- “...Only then do we gain knowledge of the true inner life, and we learn to recognize that our real self, our higher 'I', is widely extended over the world around us.” *Occult Science and Occult Development*, 1May1913, London, GA 152

# Cycle of Evolution for Mankind



# Task of the Vulcan Oracle

- Atlantean oracles
  - ***Betrayal of Vulcan Oracle*** mentioned
  - Others: Moon, Mercury, Venus, Sun, Mars, Jupiter, and Saturn. ...
- **“On Atlantis**, people who were suited to develop this or that cognitive capacity were chosen from the population and assigned to one of the seven oracles.
- Of the seven oracles, which were named after the seven planets in ancient Atlantis, the **Sun Oracle** stood out from all the others, but **next to it the Vulcan Oracle prepared itself *in secrecy* for its future task.**”
- *The Principle of Spiritual Economy*, lecture 11, 31May1909, GA109



# Vulcans to the rescue

- Since 1880 **Vulcan beings** descend
  - From between the Moon and Mercury
  - Seeking entry to earthly evolution
  - To them we owe Spiritual Science
  - First Super-earthly Beings to bring messages
- **They seek to be the fore-runners of the end of the earth and the return of the moon**
- Understand their speech **only through Spiritual Science**
  - “Our shadowy intellect must be re-animated by Spiritual Science
- The human race **does not welcome these Beings**
  - Shock after shock will arise and the earth will dissolve into chaos if these Beings meet with opposition from humanity”



R. Steiner, Evolution of Human Freedom and Personal Consciousness, Dusseldorf, 19Jan1905  
(no GA)

Question: why Vulcan? Hephaestus?

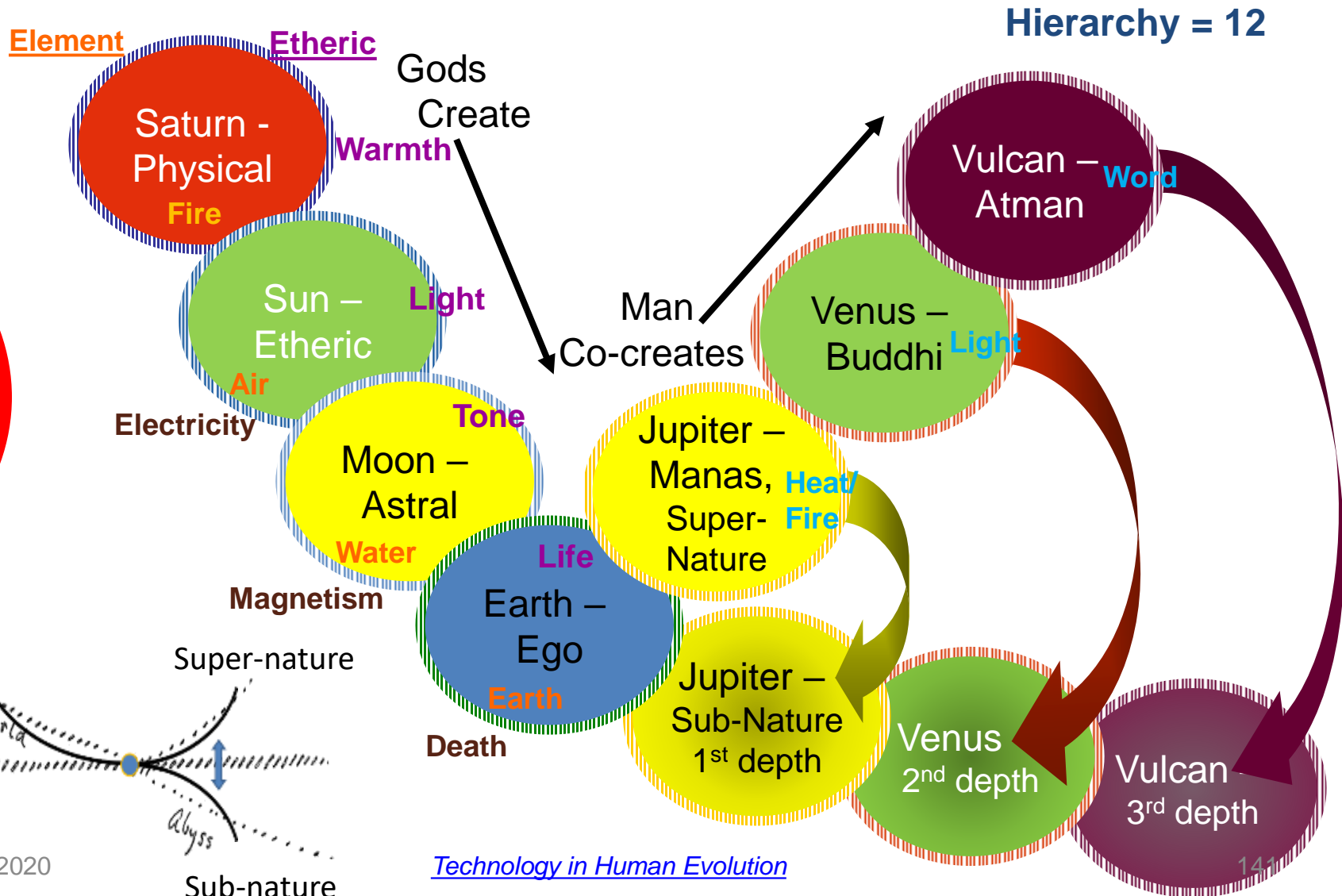




# Three Occultisms for our Times

- West: Mechanical, East: Eugenic, Middle: Hygienic
- “In short, the natural life of human beings, from the fifth post-Atlantean epoch on will be a sort of continual, gradual becoming ill. All influences of education and of culture must be directed to the objective of making well. In a certain way, this is the first true activation of the Christ impulse: healing. This is the special mission of Christ in the fifth post-Atlantean epoch — to be the Healer, the One who heals.”
  - *Challenge of the Times*, lecture 5, 7Dec1918

# 7 Stages of Human Condition



# Conclusions



- Fearsome future forecast, but we will not fear it
- Prepare for the future according to divine will
- Cultivation of the Mysteries of Technology is justified
  - Inner being, moral being, intention, fire
  - Robotics likely necessary for our fut
  - Hephaestus (= Vulcan)
    - God of Technology & Smiths
    - Representatives here to help us



# Closing

- "Where is beauty, where is art, where is love? If they cannot find their way back to the center in a manner that is fitting for our future then I don't think there is any hope for technology."
- The wisdom of the gods is that they put beauty, art, and love together with technology. They did not put Aphrodite with Mars, with whom she has flings once in a while. They did not put her with one of the other beautiful gods. They placed her with us who are lame, who are of this earth, and yet on whom so much depends. ...
- A marriage of love with technology can produce the offspring for which we all long: an art of living as free moral beings in both the human and the nonhuman world. This is synonymous with right livelihood."

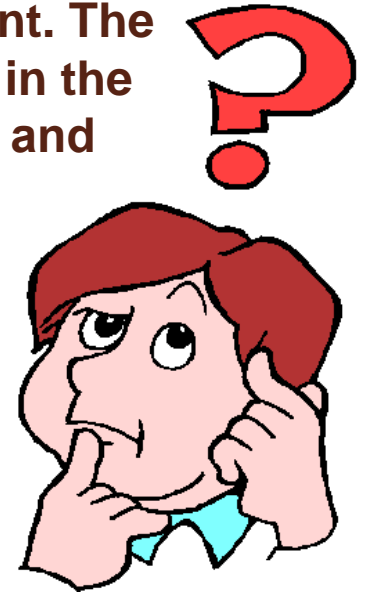
Quote by Arthur Zajonc from "Buddhist Technology: Bringing a New Consciousness to Our Technological Future"; The Journal for Anthroposophy No. 68 Spring 1999

*Painting by Carolina Allen*



**“Pleasure and joy are founded on pain; without it they cannot exist. Just like the pleasure of satiety depends on hunger, so do knowledge and joy originate in pain. That is also the reason why, in a tragedy, the sense of an expected redemption fills us with satisfaction. Everything that will have fullness in the future endures states of sadness and pain at present. The knowledge that what is now pain and suffering will in the future turn to plenitude comforts us.” Occult Signs and Symbols, 28Oct1907, Berlin, GA 101**

## Q&A



**“Out of desperate circumstances, the new Christ experience will evolve. Trying outer circumstances will become inner soul trials. Out of these soul trials, vision will be born.” -- R. Steiner, *For the Michael Age***



“And our knowledge is real when it thus stands before our eyes like the construction and the process of the whole cosmos. Then it is no speculation, no fancy, it is born out of the Cosmos itself. And we must develop the feeling within us: Wisdom must be an ideal for us, which is born out of the circumference of the Cosmos, and which fills us with the strongest force, with force to carry out our own intentions, our own great world-Ideal, and with this, force also for our ideal for future humanity.”

-- *The Spiritual Hierarchies*, lecture 10, 18Apr1909, Dusseldorf, GA 110

## BACKUP SLIDES



# Further Research

- Robotic bodies into which we 'avatar'?
- Countenance for these bodies
  - Good and Evil revealed
- Who can use such bodies?
  - Other humans? Other beings?
- And my double?
- Jupiter-Humans?
- Moral Technology?
  - Interface
  - As a driving force
  - Mechanized Beasts
- What's Physical Reality?

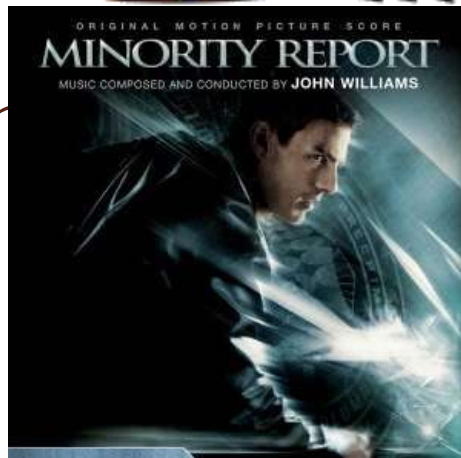
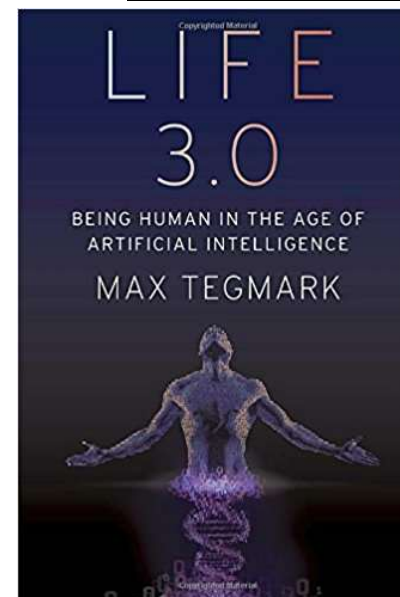
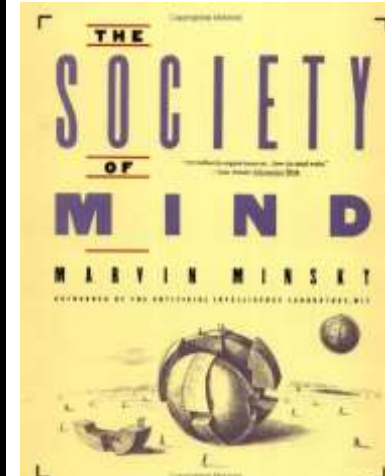
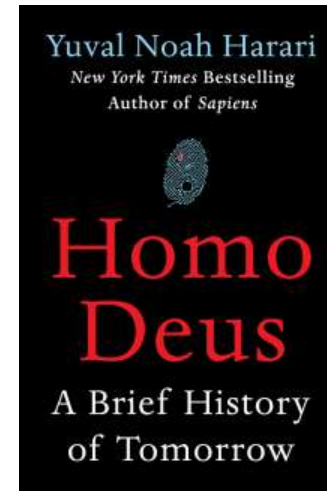
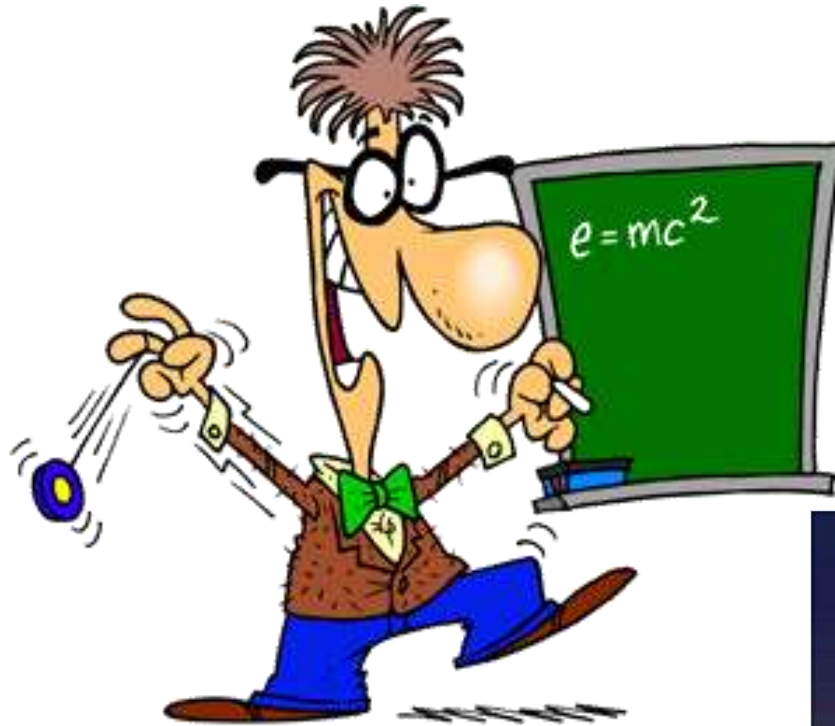


# Did the Culmination Succeed?

- Evaluation criteria
- Earthly or Spiritual?
- Sufficient resources
- Prep for 21<sup>st</sup> c RS
- 2023: 100 yrs.
- Birth ~ 1990



# Who is Speaking About the Future?



Transhumanism

# Science Fiction

- Preparer for our future?
- Return of the moon
- Sexual procreation ends
- Hephaestus = Vulcan
- Arrival of Vulcan beings
  - Began 1880
  - Spiritual Science content
  - Their evolution
  - Forced entry if ignored





# What Will People Do?

**The Jobs of the  
Future Will Be  
What Robots  
*Can't* Do**



- 90% of current jobs will be done by robots in 25 years
- What is the role of Education?
- Job readiness?

# Using Gamers to Make AI Weapons

- They'll then use the information they glean from the gamers to build an advanced AI — so that it can then coordinate the actions of entire fleets of autonomous military robots.
- Giving the fleet the ability to autonomously navigate unpredictable environments
- What could go wrong?

**DARPA IS USING GAMERS' BRAIN WAVES TO TRAIN ROBOT SWARMS**



DOUGLAS LEVINE/UNIVERSITY AT BUFFALO

<https://futurism.com/the-byte/darpa-gamers-brain-waves-train-robots-swarms>





# Modern Technology & the Role of Evil

- In the 5<sup>th</sup> PACA, **illusion**, Maya itself, will be **seized upon by Evil**; it will all be permeated by cleverness, intelligence (VR)
- It sounds paradoxical when one asserts that it is good for men that they can learn to know all these things
  - But the fact is, the human being can only come to **spiritual freedom** by growing **strong against resistance**
  - Moreover, precisely that which is connected with the number Five is always connected in this way with the unfolding of Evil
- 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 must penetrate it with consciousness**; we must 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 (again Virtual Reality)
- - R. Steiner, *The Problem of Faust*, lecture 6, 4Nov17



# Evolving Human Consciousness

- Permanent stamp is made upon the general consciousness
  - Whenever you unite the spirit in you with the mineral world
    - For example, make a machine
  - You even change the atom
- “Everything that is performed **without regard to self**, that is connected with the **interests of another**, helps to intensify and to **strengthen our consciousness for the future struggles for existence**
  - For example, you build a church for others, not for yourself
- “Whatever is achieved in the way of development of consciousness in the world does something to further the evolution of the consciousness of **every single being**, even if such a being has not actually worked at the development of his own consciousness”
  - *The Atom as Coagulated Electricity, GA93*

# Evolution of conscious awareness

*Not to scale*

Spiritual world full of beings

Sentient Soul 3<sup>rd</sup> M BC

Ancient Mysteries

Intellectual Soul 8<sup>th</sup> C BC



End of the "Earth" (4<sup>th</sup> C)

Materialism →

1413 5<sup>th</sup> PACA

Consciousness Soul  
Culmination

Who needs  
religion?

End of 20<sup>th</sup> C

7893 End of 7<sup>th</sup> PACA

8<sup>th</sup> M Moon returns

War All v All

American Cultural Age

7<sup>th</sup> M Women infertile

5733 End of 6<sup>th</sup> PACA

Russian Cultural Age

3573 End of 5<sup>th</sup> PACA

Meeting with  
Sp. Beings



# transcending through technology

## **Transhumanism, *Anthroposophy Worldwide* Sept. 2018**

- Kurzweil's stages: evolution in six epochs
- The 5<sup>th</sup> epoch begins in 2030
  - Merging of human beings and machines
  - Beginning of the singularity
- 6<sup>th</sup> epoch when we'll be "quite close to God"
  - "Once we saturate the matter and energy in the universe with intelligence, it will be conscious and sublimely intelligent" p. 375
- Life as a computing operation
- Placing the universe into the hands of humanity



# Paradise Soon? Does Steiner Agree?

Out of pain, out of the destruction of life → consciousness

- “When a being works against disintegration and decay then it is a living being. If it is able to **let death arise** within it and to transform this death continually into life, then **consciousness** arises. Consciousness is the **strongest** of all forces that we encounter.
- Consciousness, or conscious spirit, is that force which **out of death**, which must be created in the midst of life, eternally makes life arise again. **Life** is a process which is concerned with an **outer world and an inner world**. **Consciousness**, however, is a process which has to do **only** with an **inner world**. An entity which can die externally cannot become conscious. An entity can only become conscious that creates death in its own center and overcomes it.” -- *Origin of Suffering*, 8Nov1906, Berlin, GA 55



“One must comprehend such necessities, but one must also not allow oneself to be depressed by them. For this reason, one must be very clear that the **time of awakening has come** and that one must **take an active part in this awakening**, that events often hurry ahead of knowledge and one will not understand the events that take place around us unless one accustoms oneself to knowledge.”  
– Rudolf Steiner, *Individual Spirit Beings and the Undivided Foundation of the World*: Part 3, 25th November, 1917, Dornach, GA0178 (*Reappearance of Christ in the Etheric*)

## ISSUES TODAY

“These mysteries of **birth and death** presuppose likewise that mankind will first come to experience a certain maturity; they presuppose that **man will really be able to confront Ahriman** and Lucifer consciously. -- *Three Streams in Human Evolution*, Lecture 5, 12Oct1918, Dornach, GA 184





# Dawning of Renaissance 2.0

- “We are standing at a definite point in the evolution of humanity in the sphere of art and in many other spheres of spiritual life — at a point where the Spirit speaks clearly to us of **new riddles**.”
- And just as in the time of the [1<sup>st</sup>] Renaissance man was destined primarily to orientate himself to the ***past*** in order to work his way through to the new, so it is with our own external knowledge and perception of the universe.
- All that has been produced by the modern age since the 16<sup>th</sup> century is only the ***preparation*** for a ***living*** experience of the universe in its forms and ***movements*** which now stand before us as ***riddles***.”
- *Ways to a New Style in Architecture*, lecture 3, 28Jun1914, Dornach, GA 286

# Renaissance 2.0 in Education

## *A COUNTERBALANCE TO TODAY'S TECHNOLOGICAL THRUST*

- “The essence of the human being can be understood only in connection with the cosmos”
  - “The human being is directly coupled to the cosmos”



# Now! Experiencing the Etheric Christ



- Separation of etheric and physical at death
- It is only in the twentieth century that a renewal of the Christ-Event will begin, for this is when a certain general heightening of human powers of cognition begins. It brings with it the possibility that in the course of the **next 3,000 years**, and without special clairvoyant preparation, more and more persons will be able to attain a **direct vision of Christ Jesus** [but not with the physical eyes]
- Christ becomes the Lord of Karma, so that in the future it will rest with Him to decide what our karmic account is
  - *From Jesus to Christ*, lecture 3, GA 131
- Year 2000 + 3000 = Year 5000 as end of Christ's Appearance in the Etheric – what will this mean for human physical and etheric bodies?



# Renaissance 2.0

- Has already begun, a revolution within Science
- Begin with the Human Being
  - Epistemology: How do we know that we know
    - Or what we know?
    - What must be at the first gate for all Science?
    - Thinking about thinking, cognition as a mental process
  - What of the human being is earthly?
  - What is heavenly? What is our relationship to the stars?
  - 3-Fold Human: Head (nerve-sense), Heart/Lungs (rhythmic), Limbs (metabolic) – Thinking, Feeling, Willing
    - Fixed Stars, Moving Stars, Earth : Spirit, Soul, Body
  - 4-Fold Human: Elements and Ethers (and sub-physical ethers)

# Emergent Sciences

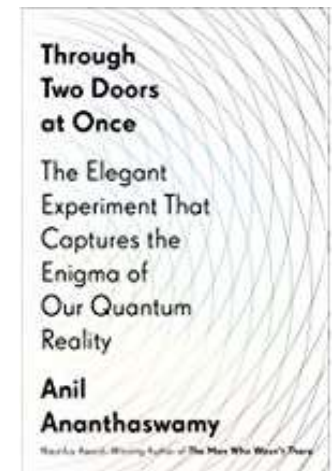
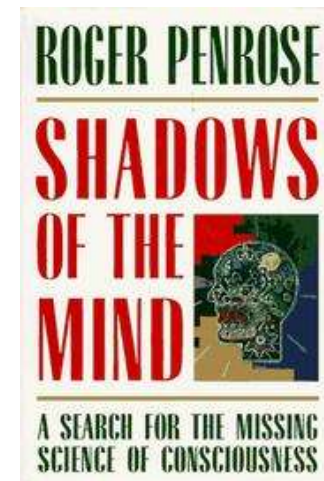
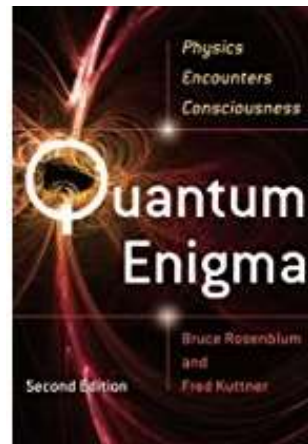
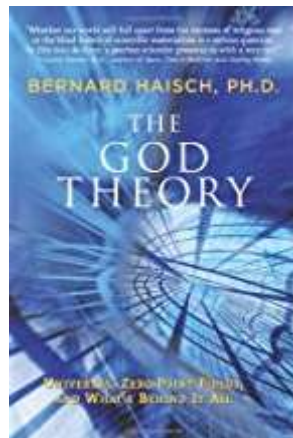
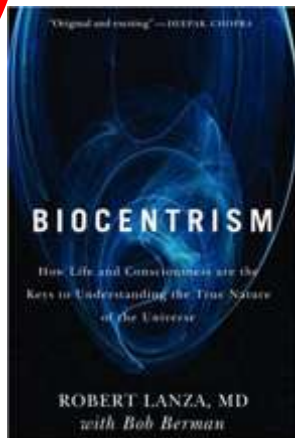
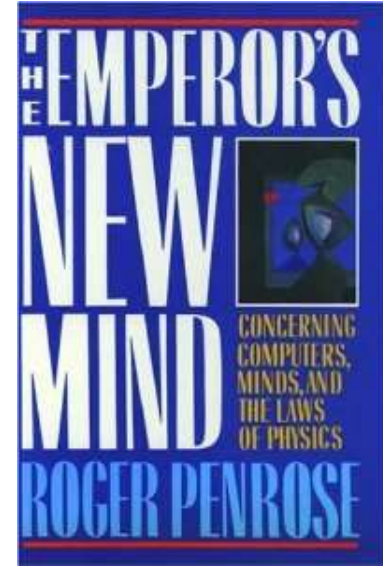
“The actual state of our knowledge is always provisional ... and there must be, beyond what is actually known, immense new regions to discover.”

- Louis de Broglie
  - Quantum physicist
  - Nobel Prize 1929
  - all matter has wave properties



# A Revolution in Science is Underway!

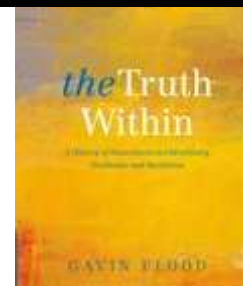
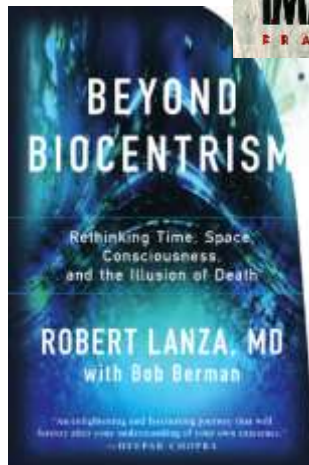
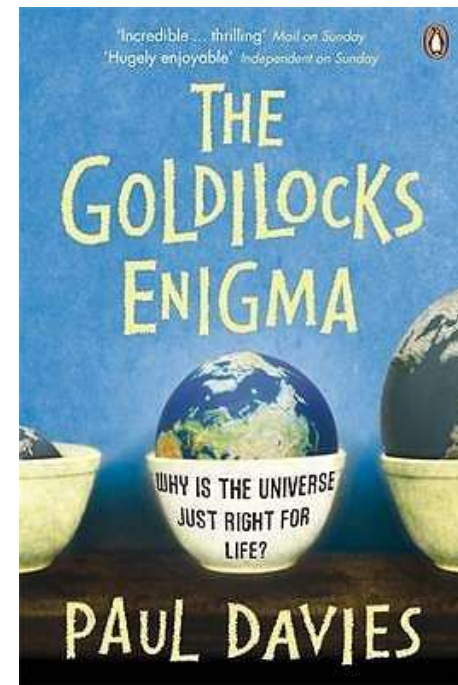
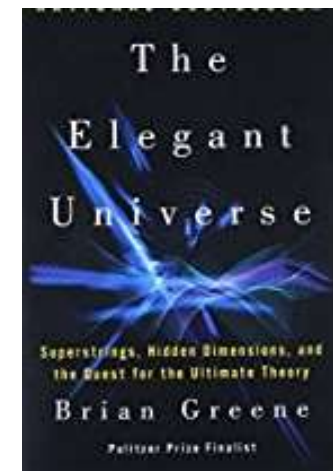
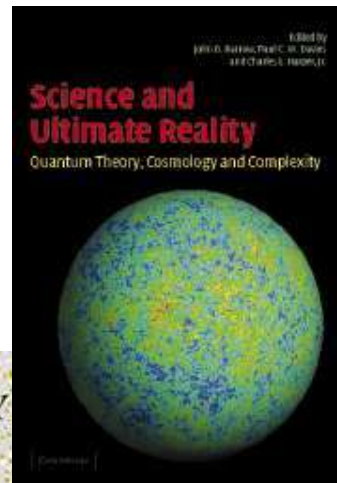
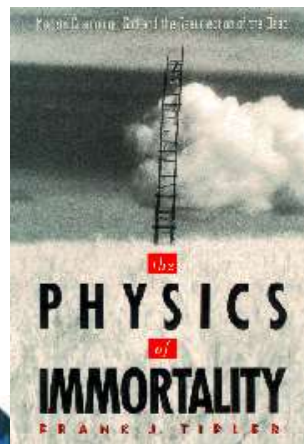
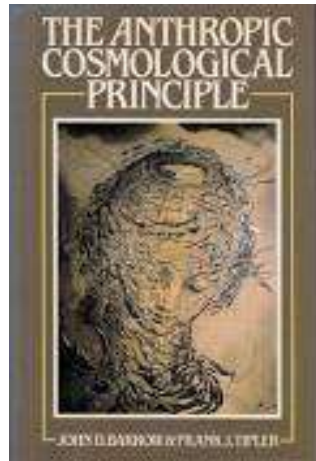
- Materialism still rules
  - but its strength is eroding rapidly
- A new paradigm, a new view of reality
- A new model of the human being is desperately needed
- We have about 20 more years to ensure Renaissance 2.0 is established -- Steiner's goal





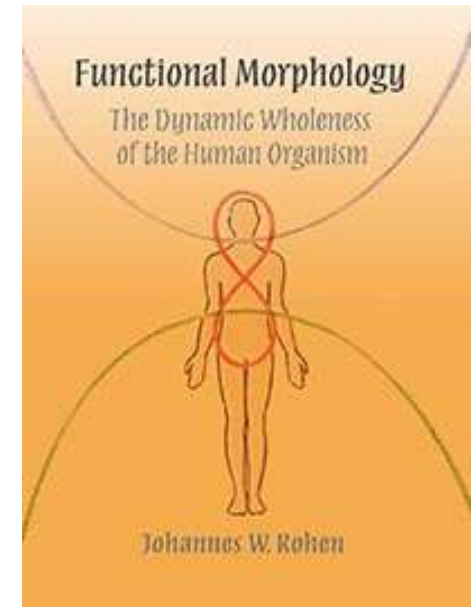
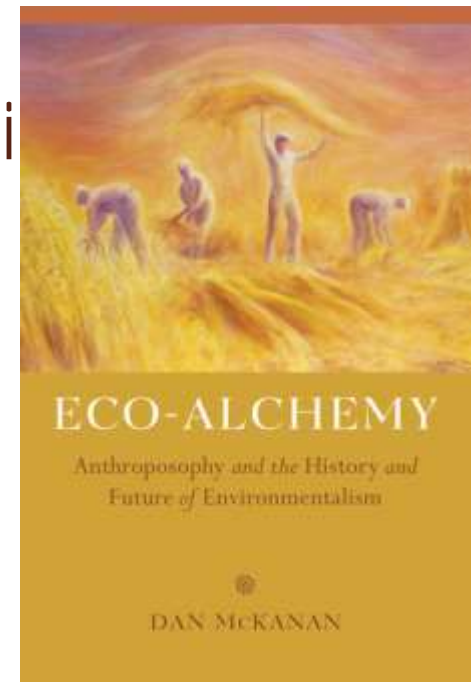
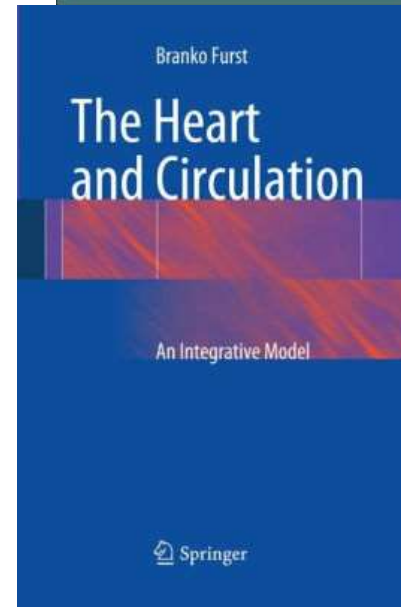
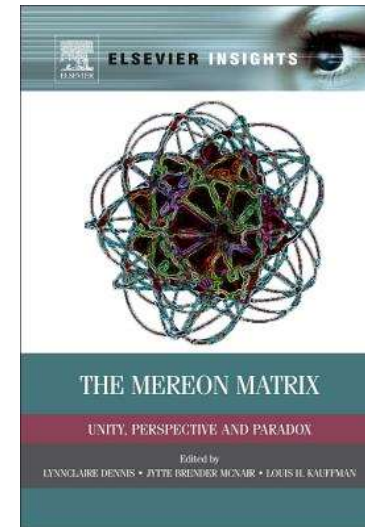
# Astro-Physics

- *The Anthropic Cosmological Principle* by John D. Barrow



# Many Fields of the Revolution

- Ecology
- Agriculture and Nutrition
- Botany, Zoology, and Biosciences
- Medicine
- Anatomy
- Optics, Color, and Light
- Fluid Dynamics
- Education
- More ...



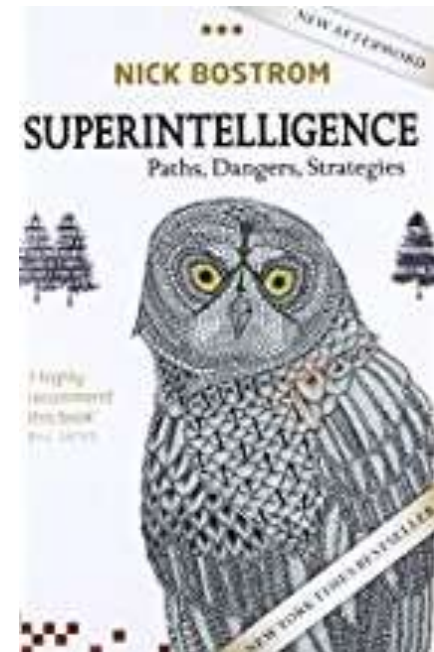
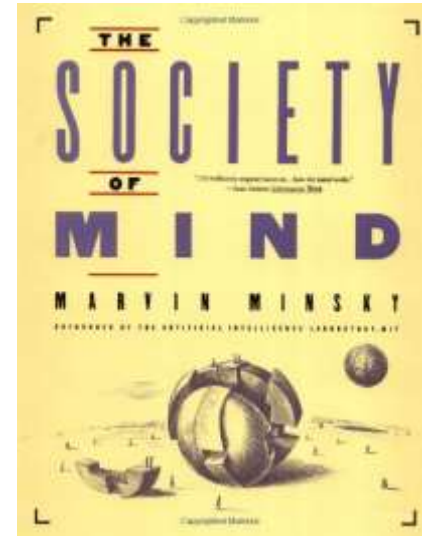


# What is Needed to Guide Renaissance 2.0

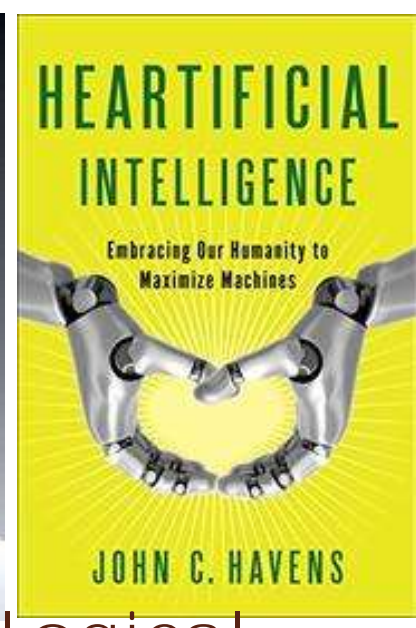
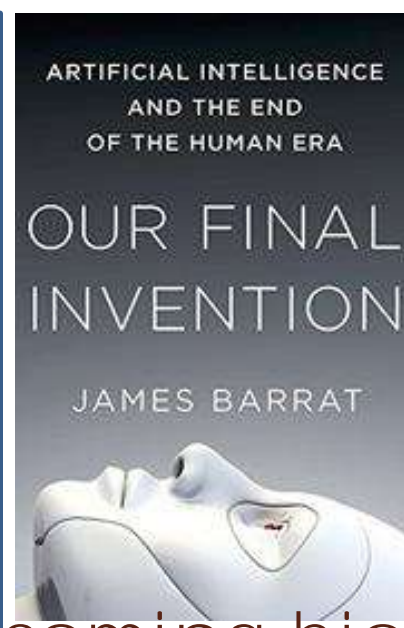
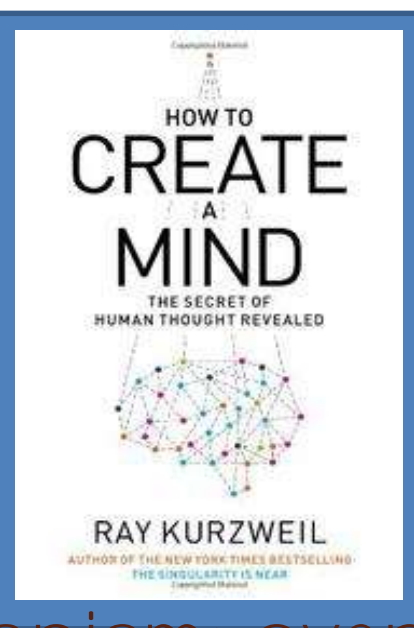
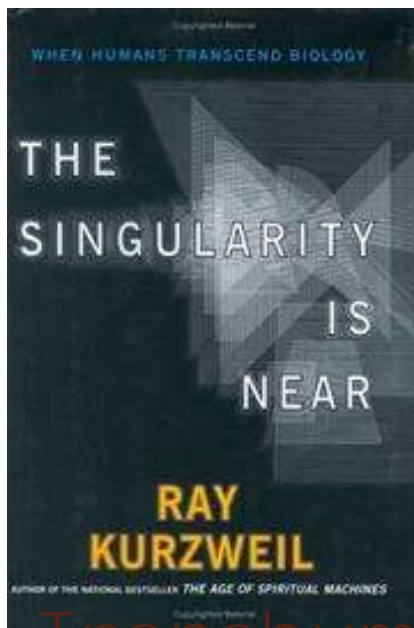
- Epistemology: fundamental to science
- “It is due to our mental organization that the outer world is given to us, at first without its corresponding concepts.”
- “Intuition adds that part of the reality—the concept—which is lacking in the percept.” “From every real thing the relevant elements come to us from two sides, from perceiving and from thinking.”
- “The moment a perception rises up on the horizon of my observation, thinking also becomes active through me. An entity within my system of thoughts, a particular intuition, a concept, joins itself to the perception.”
- “The act of knowing or cognition is the synthesis of percept and concept.” – R. Steiner, *The Philosophy of Freedom*
- **Thinking is a spiritual activity**

# Are There Dangers Ahead?

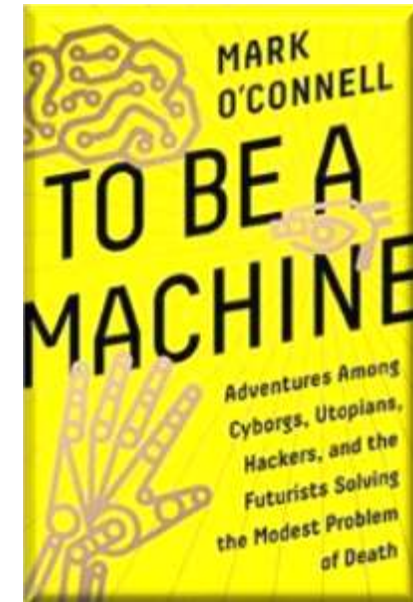
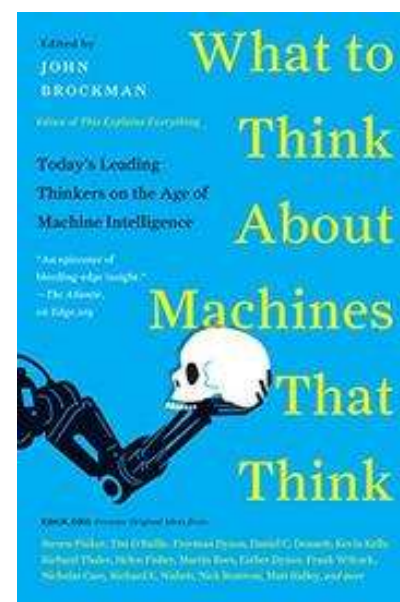
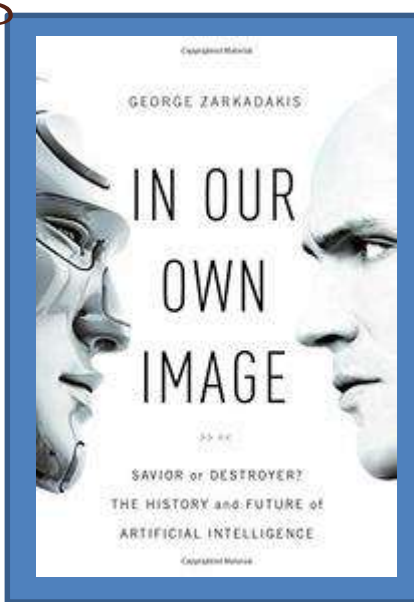
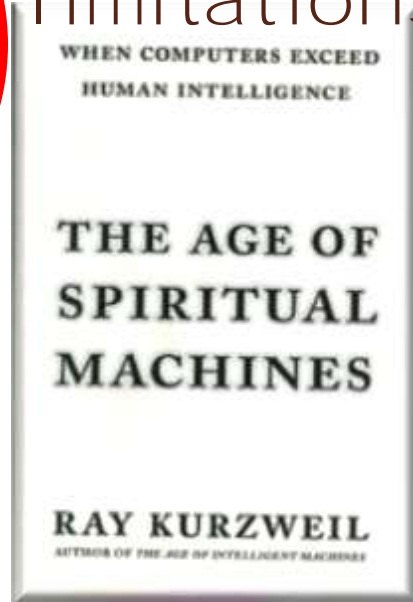
- Mind is a "society" of tiny components that are themselves mindless
- If machine brains surpass human brains in general intelligence, then this new super-intelligence could replace humans as the dominant life form on Earth.
- Sufficiently intelligent machines could improve their own capabilities faster than human computer scientists, and the outcome could be an existential catastrophe for humans.
- Superintelligence would be difficult to control or restrain







# Transhumanism: overcoming biological limitations





# Comparing Visions of the Future

## Ray Kurzweil

- Transcend biology by merging with non-biological systems
- Merger of our biological thinking and existence with our technology
- By 2030 man will be less human and more machine, with bodies filled with nano-robots and artificially enhanced to be much stronger and billions of times more intelligent
- "[2045: The Year Man Becomes Immortal](#)" *Time*

## Rudolf Steiner

- “The **welding** together of human beings with machines will be a great and important problem for the rest of the earth-evolution.” -- *The Wrong and Right Use of Esoteric Knowledge*, lecture 3
- “Man will chain a **second being** to him ... feel the urge to think materialistic thoughts, to think, not through his own being, but through the second being who is his companion” *GA158*
- “Our **science** must lead the way, must prepare for what has to happen with the bodily essence in the future.”
- “What you think today, that you will be tomorrow” – *The Temple Legend*, lecture 13



# Transhumanism Overview

Yuval Noah Harari  
New York Times Bestselling  
Author of *Sapiens*

- Futurologists such as Ray Kurzweil predict 2045\* as when AI robotic intelligence will surpass human intelligence
  - [Before then] “we want to preserve the best of what it is to be human and maybe even amplify that” – Nick Bostrom
  - “Transhumanism will lead humanity forward to understand a simple truth: that the spectre of ageing and death are unwanted, and we should strive to control and eliminate them” – Zoltan Istvan
- Why is this imagination important for Anthroposophists?
  - The role of human imaginations for our future



Christian Kromme



# Transhumanism

- This not only reveals the whole hubris behind these ideas, it also lacks logic because how can human beings hold anything in their hands when they no longer exist as such.
- The whole gigantic scenario is supported by scientists, entrepreneurs and governments all over the world. Not only in the us but in China, India and Europe, too, incredible sums of money are being invested in research projects.
- Transhumanism has also fully arrived in politics and religion. In 2014, Zoltan Istvan founded a Transhumanist Party in the United States, Germany has its Transhumane Partei Deutschlands (TPD) – will robots vote?
- In 2015 Anthony Levandowski founded the religious organization Way of the Future, which wants to create a deity based on Artificial Intelligence.

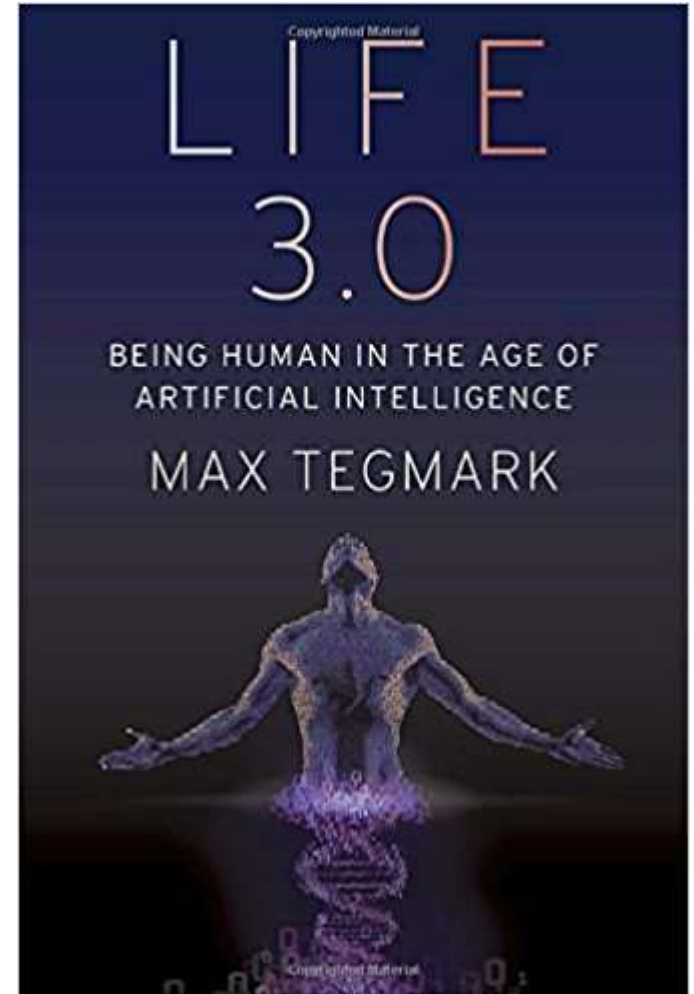


# In the Near Future, Michio Kaku @ WGS Dubai

- The word ‘computer’ will disappear because the devices will be ubiquitous: along our streets, clothing, and in us
- “There will be nothing that is *not* a computer”
- 3D printing: if you can imagine it, you can create it
  - Shoes, jewelry, rain gear, tools, parts, toys
  - Download and print it at home
- Medical monitoring, medical nanobots you swallow
- Smart meters, smart toilets, smart walls
  - Built-in screen(s) for TV, laptops, phones, security, AR
- <https://futurism.com/michio-kaku-life-20-years-future/>

# Being Human In the Age of Artificial Intelligence

- Founder of the Future of Life Institute, MIT professor
- How will Artificial Intelligence affect jobs, justice, crime, war, society and our very sense of being human?
- “AI will transform our economy, our culture, our politics and even our own bodies and minds in ways most people can hardly imagine.”
- What would Steiner say?





# Tech Impact On Our Teens

- Depression

- “8th graders who spend 10 or more hours a week on social media are 56% more likely to say they are unhappy than w/less.
- 8th graders who are heavy users of social media increase their risk of depression by 27%.
- Teens who spend 3+ hours a day on electronic devices are 35% more likely to have a risk factor for suicide.
- Girls, especially hard hit, have experienced a 50% rise in depressive symptoms.”
- <https://www.nytimes.com/2017/11/20/opinion/how-evil-is-tech.html>

- Addiction: dopamine surges, hijacking techniques

- Shame campaign like tobacco and car seats needed?
- *Wait Until 8th* urges parents regarding smartphones
  - <https://phys.org/news/2017-12-kid-smartphone.html>

# Intended Addiction

- Chamath Palihapitiya
- Former Facebook VP
- Conference at Stanford
- CBS News 12/12/2017
- “The short-term, dopamine-driven feedback loops that we have created are destroying how society works. No civil discourse. No cooperation. Misinformation. Mistruth. And it's not an American problem. This is not about Russian ads. This is a global problem. So we are in a really bad state of affairs right now, in my opinion.”





# Tech Impact On The Rest Of Us

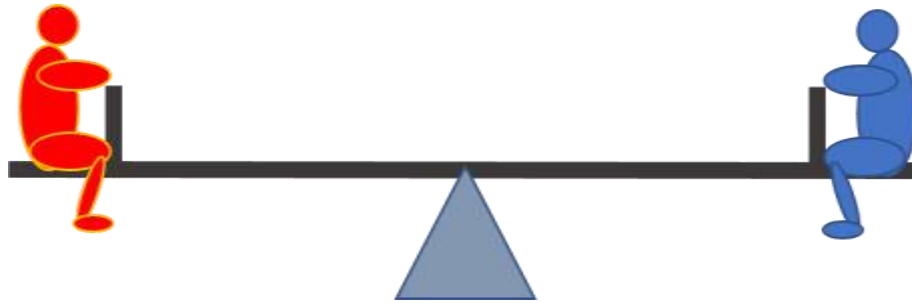


- American Psychiatric Assoc.:
  - “Half of millennials worry about the negative effects of social media on their mental and physical health”
- A [recent Pew Research Center survey](#) noted that more than 70 percent of Americans were worried about automation’s impact on jobs (Steiner: 90% of jobs gone)
- “Got to regulate AI/robotics like we do food, drugs, aircraft & cars” – Elon Musk
- [Annals of Technology, October 23, 2017 Issue](#)
  - **Welcoming Our New Robot Overlords**
  - *“Once, robots assisted human workers. Now it’s the other way around.”* by Sheelah Kolhatkar



# What is Missing?

- Knowledge of the Human Being
- In order to create needed counterbalances



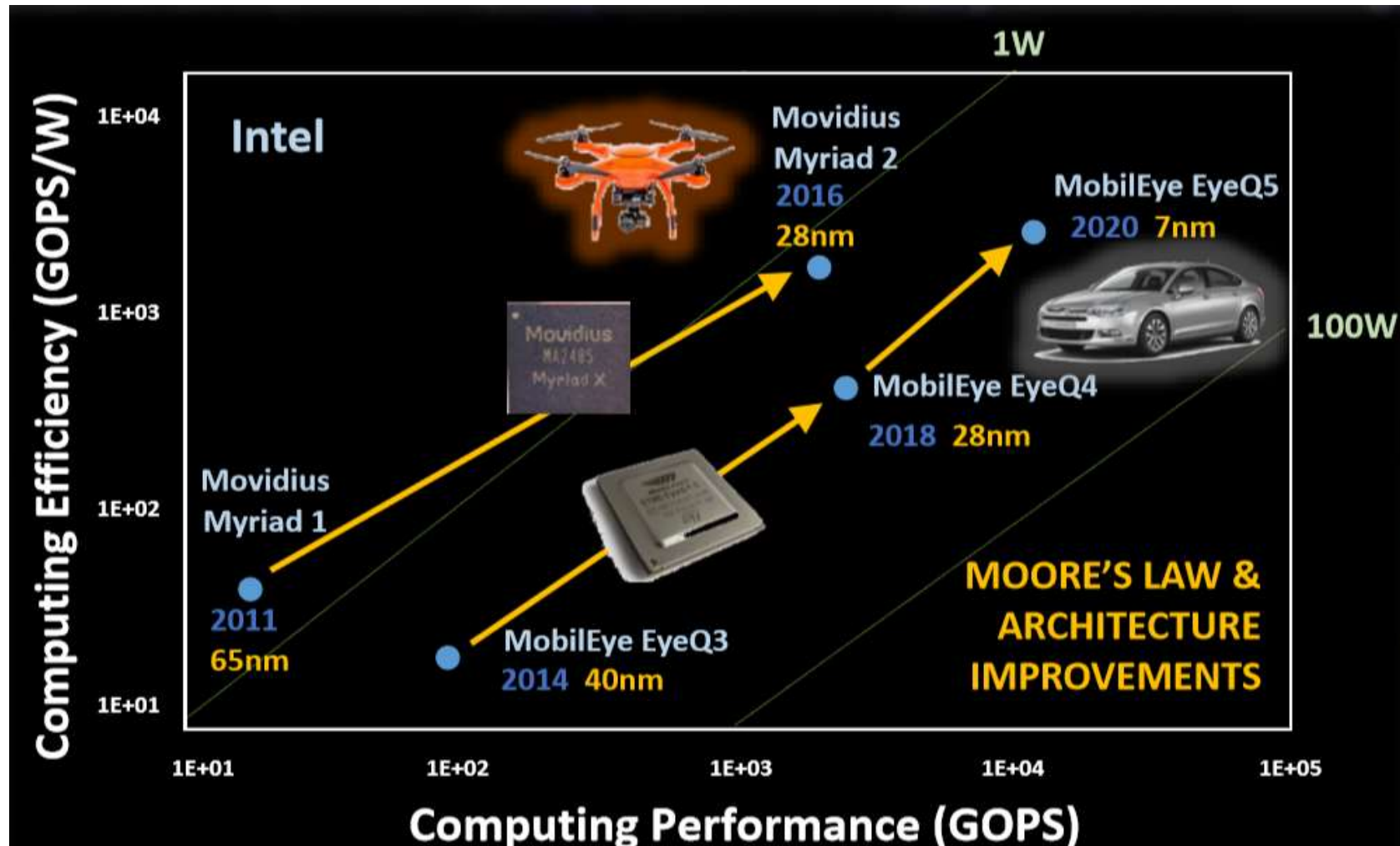
- Renaissance 2.0
- Tomorrow ...

# Moral Education of AI Developers

- A computer is without the concepts of good or evil that exist in people's hearts
- "We need to ensure AI's designers, including software engineers and algorithmic scientists, master the right tools, and have the right awareness to develop an AI system"



# Trend for Embedded AI Platforms

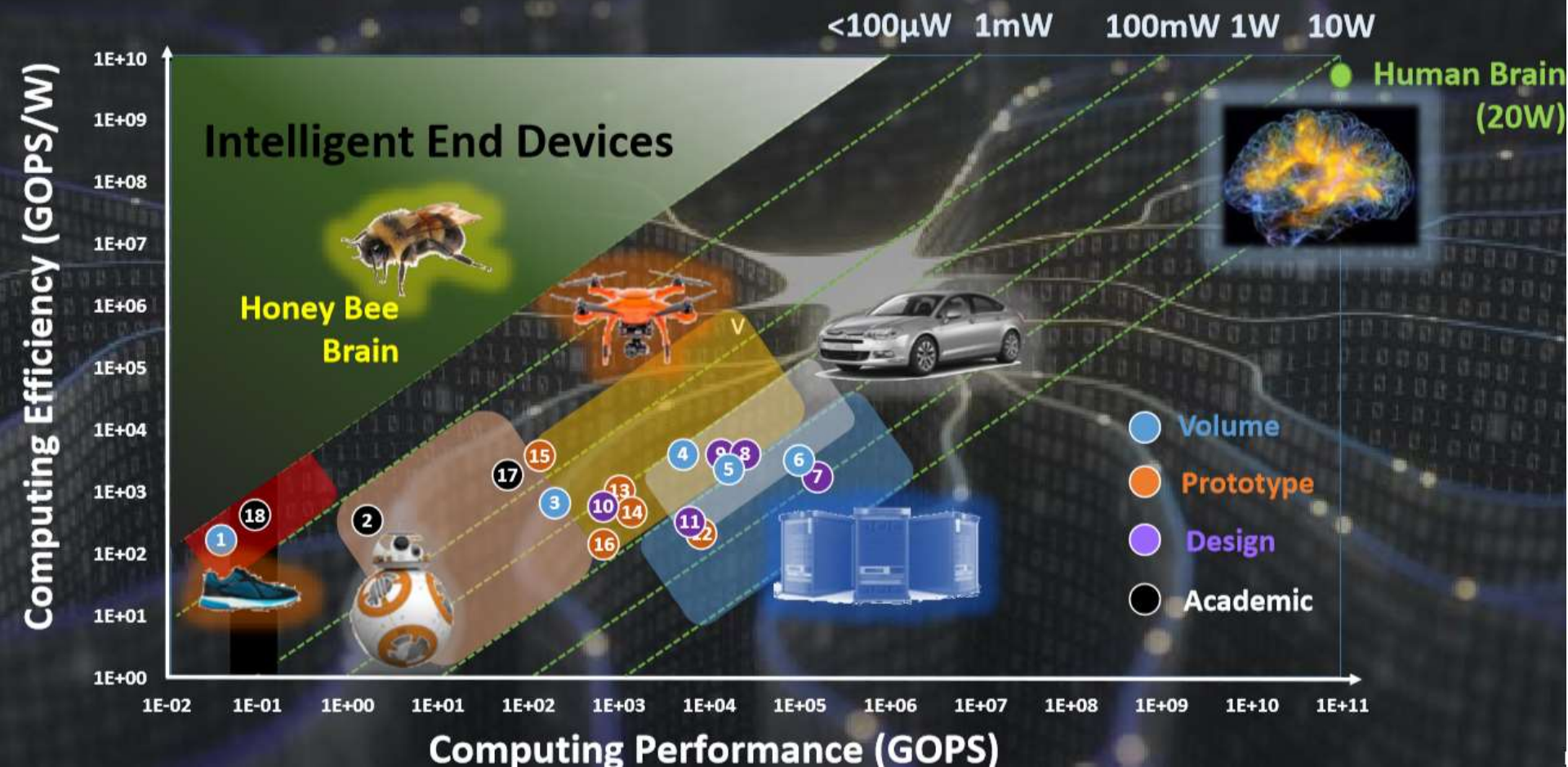


Singularity: when AI surpasses HI



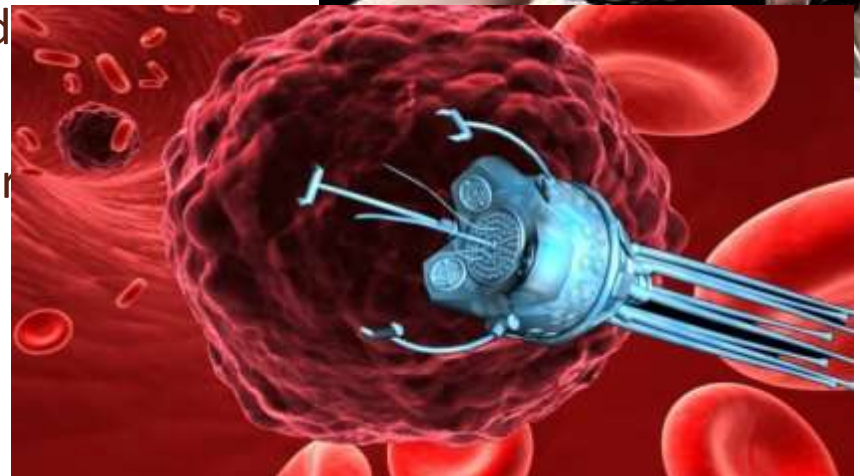
# Compare to the Human Brain

## PERFORMANCE/POWER REQUIREMENTS



# Entering a Machine as an Extension of Body

- Becoming comfortable operating an automobile
- Becoming comfortable operating an auto-humanoid
  - From within, not like the movie Avatar
- **Emancipation**
  - Physical labor
  - Mental labor





# Attachment of a Second Being

“During the **course of the Fifth PACA**, so many problems have lost all inner, vital warmth. The countless questions which confront us when we study Spiritual Science with any depth, simply do not exist for the modern man with his materialistic outlook.

“A different form of experience will come to the man of modern times. In his own opinion he knows ever so well; he observes the material world, **uses his *intellect* to establish the interconnections between its phenomena** and believes that all its riddles are solved in this way, never realizing that he is simply groping in a phantasmagoria.

“But this way of working coarsens and dries up his ether-body, with the ultimate result that the [Ahrimanic] powers, ***like a second nature, will attach themselves to him.***

*The Balance in the World and Man, Lucifer and Ahriman, Rudolf Steiner*





# Building Anthroposophy Upon Science

- “What was quite impossible in earlier times — to find any reality in the external world — is now a possibility through the very circumstance of our having become **inwardly hollow**. And this possibility **will increase**. ...
- Ancient times reached **knowledge of the world through knowledge of man**. Speaking theoretically, we might say that what man went through as a **life-process** was, when completed, knowledge of the world; and with knowledge of the world in his consciousness, he could work back to man.
- If today you pass through **forms, life, and consciousness** of this world, what you really reach in this way is **knowledge of Man**. Everything else in the knowledge of nature vanishes, and Man becomes comprehensible. In the same way, from having gained knowledge of the world, Man becomes comprehensible as a three-membered being — nerve-sense being, rhythmic being, and metabolic being. From Man we can then pass again to knowledge of the world.” -- *How Can Humanity Find the Christ Again?* Lecture 4



# Reality in the Consciousness Soul Age

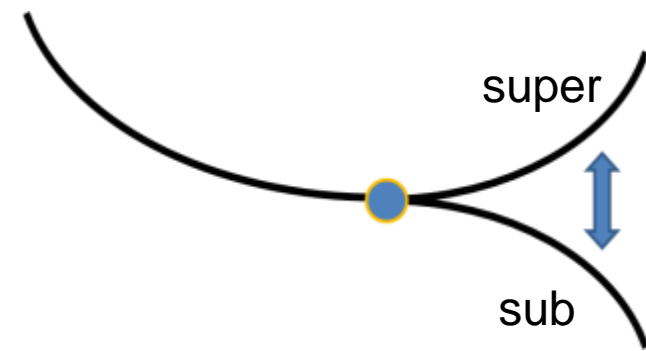
- “In our time, if a man really strives to **reach life through forms**, he must be able to say to himself: Even if I hold concepts ever so beautiful from this or that traditional religious confession, they may be quite fine, but I still do **not attain reality** by means of them unless I can also set the **opposite concept** before me.
- The reality, our true being, only shines into us and what we bear within us is merely the reflection.” – *lecture 5*
- **Spirits of Form**, were active; they revealed themselves to each supersensible consciousness. Now, it is the **Spirits of Personality** who work in Imagination of those who **go to meet them** (except in pathological cases).



# From Natural to Spiritual Science

- “This present-day development demands of us that we strip away all that is out of date in current science, and really find our way into **new thought-forms**, so that in them we may reach not antiquated visions, but **imaginations built up with all our will**, which we may then offer to the objective process of the spiritual world and receive back **verified**.”
- When one attains a consciousness that is outside the body and outside the course of life, that is really in the spiritual world, then **will and conceptions flow together** again into one reality.
- Man **must** for once **dive down into this purely material life**, so that, **independent of it**, he may **gain the spiritual**.”

# Higher Stages of Spiritual Development



- The **Fifth Stage, The Mystical Death**

- The whole world appears as if covered with a veil. Everything around has lost its old value. While a person feels himself thus lost in darkness, suddenly the veil is rent and he begins to see the ultimate spiritual and original aim. He gazes into a quite new, world.
- At the same time he learns to recognise what lies at the bottom of the human soul. He becomes **a second person** by the side of himself and looks down on his lower self, which is separated from him.
- **His body is the mother** that he sees standing below him and the transformed lower self is the disciple who bears witness that Christ lives. The higher self says to the lower self, “Behold thy mother!”

- The **Sixth Stage, The Burial And Resurrection**

- Everything pertaining to this planet becomes the body of the Christian mystic. He is one with the whole life of the earth.

*The Gospel of St. John*, 26Feb1906, Berlin, GA 94

See also *Occult Science and Occult Development*, 1May1913, London, GA 152



# Spirits of Birth and Death

- Now being freed up; entering industry and commerce
  - At the boundary between spiritual world and physical world
- Wherever electricity is used, there is demon magic.  
**Demon magic signifies progress** – we should not oppose progress
  - *Karma of Vocation*, lecture 9, GA 172
- In the fifth post-Atlantean cultural age **illusion**, Maya itself, **will be seized** upon by **Evil**. It will all be **permeated by cleverness**, intelligence [AI]
  - *Leonardo da Vinci, His Spiritual and Intellectual Greatness At the Turning Point of the New Age*, Rudolf Steiner, Berlin, February 13, 1913, GA 62





# Spirits of Birth and Death

- The human being can only come to spiritual freedom by growing strong against the resistance provided by evil.
  - 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**
  - Learn to know them and what lives and moves in the very depths of things
  - We cannot do so but we must penetrate it with consciousness; we must learn to know it — really learn to know it [evil]
- 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

# Mythology

- Preparer for our times
  - Withdrawal of the moon
  - Asexual to sexual
  - Cain and Abel, separate streams
  - Prometheus and Hephaestus





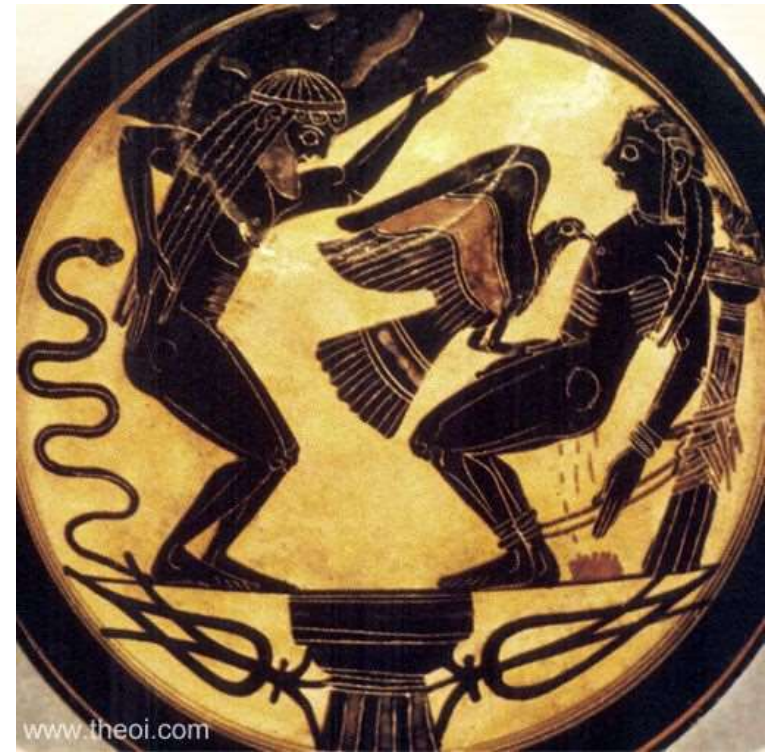
# Aphrodite and Hephaestus

- *"Where is beauty, where is art, where is love? If they cannot find their way back to the center in a manner that is fitting for our future then I don't think there is any hope for technology. The wisdom of the gods is that they put beauty, art and love together with technology. They did not put Aphrodite with Mars, with whom she has flings once in a while. They did not put her with one of the other beautiful gods. They placed her with us who are lame, who are of this earth, and yet on whom so much depends.*
- *"If we can find our way to that place of the heart, not just body and mind but heart, then it is my conviction that from out of the cosmos into which all the inner dimensions of our world disappeared, there will return wisdom, the wisdom which is joined to the heart, not as cold knowledge, not as fruit of the tree of knowledge, but as the fruit of the heart. This heavenly wisdom has been known throughout all times as Isis Sophia who will once again join hands with human beings in order to create a fertile future. A **marriage of love with technology** can produce the offspring for which we all long: an art of living as **free moral beings in both** the human and the nonhuman world. This is synonymous with right livelihood."*

— Quote by Arthur Zajonc, from "Buddhist Technology: Bringing a New Consciousness to Our Technological Future"; The Journal for Anthroposophy No. 68 Spring 1999

# BEFORE INCARNATION CAN END ...

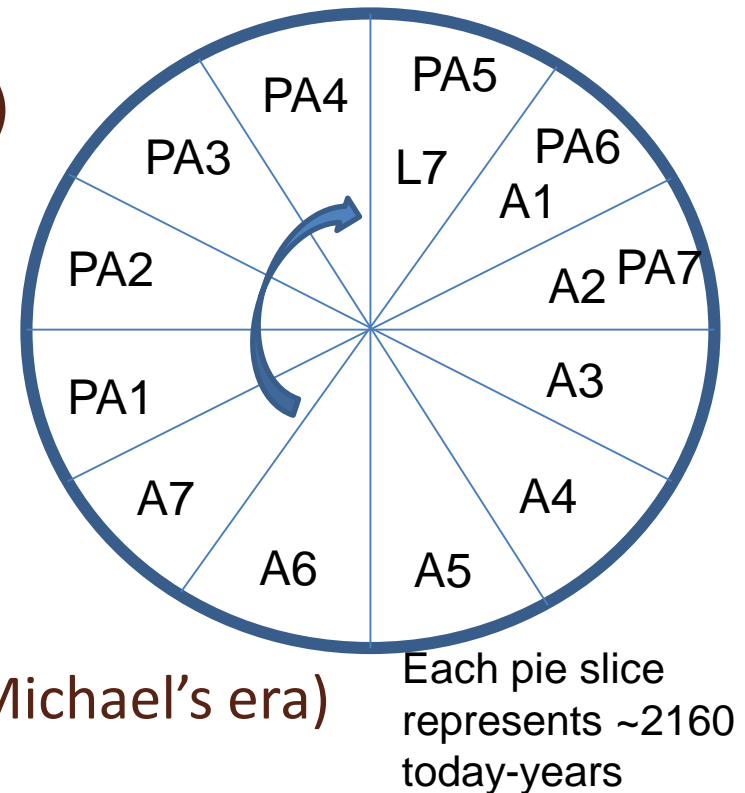
- Achieve full control of astral body
  - Convert it to Manas
- How?
  - Recognize we are Prometheus
    - Chained to the Mineral Kingdom
  - Freedom – become angel-like
    - Via the labors of Heracles
  - Sacrifice our inner centaur
- Oh well, lots of time, right?
  - How many incarnations?
  - 4000 yrs left → about 5 or 6 more incarnations
  - Then a 2160 year period of non-natural body life on earth
    - Helping others with their karma



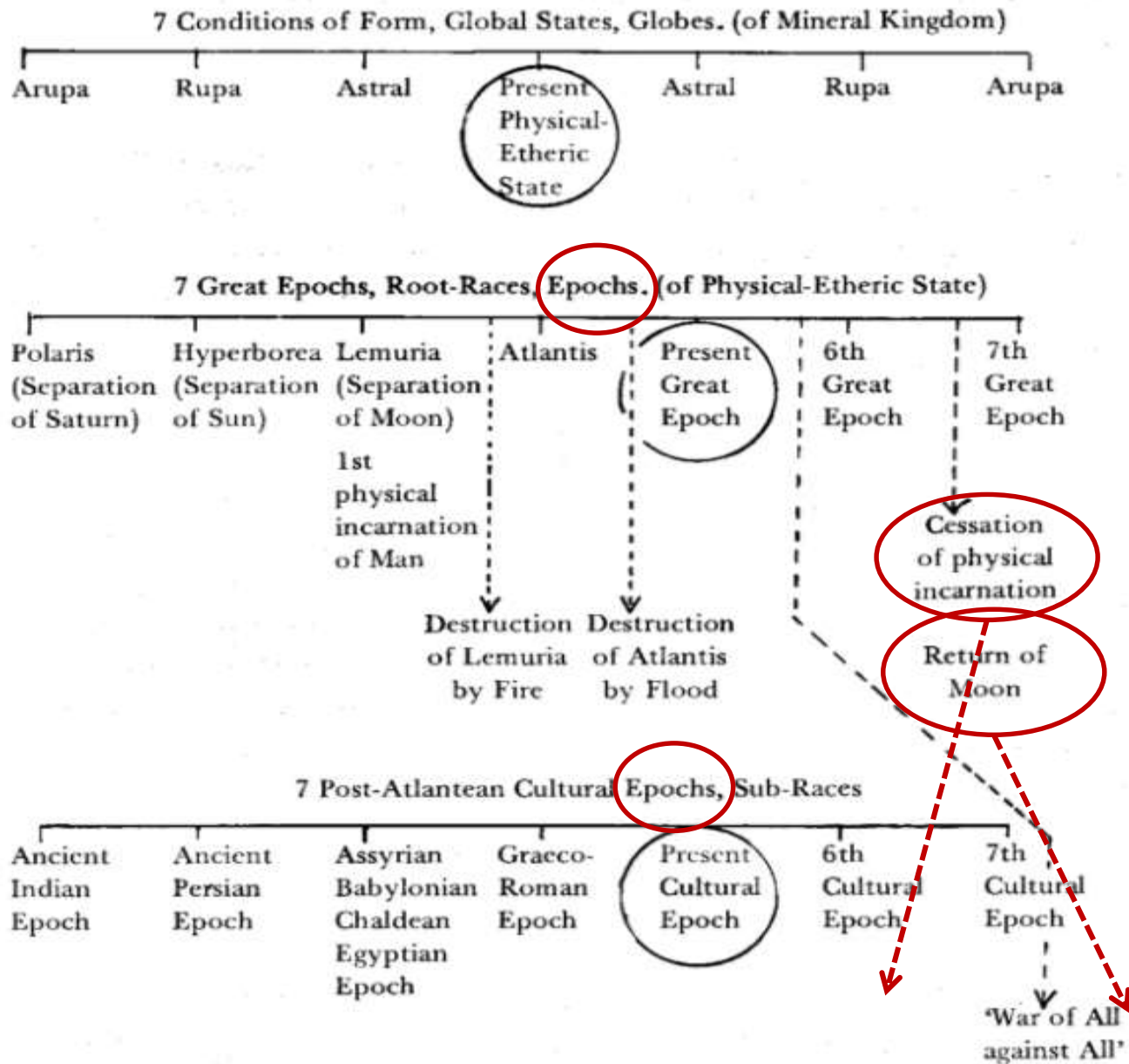


# Body-Soul Development by era

- Lemuria (moon separated)
- Atlantis (phys incarnation)
- Post-Atlantean
  - I. 56 49 earth
  - II. 48 42 speech
  - III. 41 35 stars
  - IV. 34 28 33 – Christ
  - 1879 V. 27 21 Today 27 (Michael's era)
  - VI. 20 14 Year 4,000
  - VII. 13 7 Year 6,000 – women are infertile  
Year 8,000 – moon returns



Source: *Evolution of Human Freedom and Personal Consciousness*, 19Jan1905, Dusseldorf



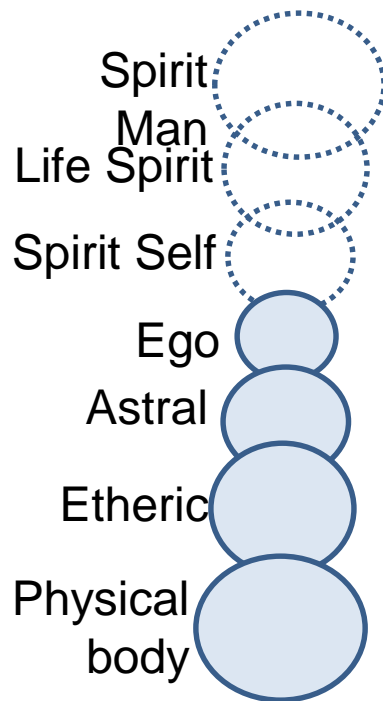


# Transition Time

How do we get from

Here

to HERE?



What happens to the Temple?

Housing for The Three

Isn't this an angel?



# Rudolf Steiner References

More Rudolf Steiner material can be found online at [www.rsarchive.org](http://www.rsarchive.org)

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2. Three Streams in the Evolution of Mankind
3. Anthroposophical Leading Thoughts
4. The Influences of Lucifer and Ahriman
5. The Karma of Vocation
6. The Karma of Materialism
7. The Karma of Untruthfulness
8. Materialism and the Task of Anthroposophy
9. Colour
10. Boundaries of Natural Science
11. Secret Brotherhoods
12. The Fall of the Spirits of Darkness
13. The Work of the Angels in Man's Astral Body
14. The Apocalypse of St. John
15. The Evolution of Consciousness
16. A Picture of Earth-Evolution in the Future
17. The Wrong and Right Use of Esoteric Knowledge
18. Geographic Medicine
19. Man as Symphony of the Creative Word



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2. Jaynes, Julian, *The Origin of Consciousness in the Breakdown of the Bicameral Mind*: Houghton Mifflin, 1976
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4. Laszlo, Ervin, *The Immortal Mind: Science and the Continuity of Consciousness beyond the Brain*: Inner Traditions, 2014
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7. Francis, Keith, *Rudolf Steiner and the Atom*, Adonis Press
8. Shelley, Mary, *Frankenstein, or the Modern Prometheus*, 1818
9. Welburn, Andrew, *The Mysteries*, Floris Books, 1997
10. <http://www.theoi.com/Ther/Automotones.html> for information about the automatons of Hephaestus





# Conversation

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*



# MysTech: Mysteries of Technology

- Sponsored by The Center of Anthroposophical Endeavors (CFAE) of Seattle, WA.
  - Non-profit, started in 1982 as Friends of Anthroposophy
  - Founded other Anthroposophical organizations
  - Hosted hundreds of lectures, workshops, and performances
- MysTech Membership to support R&D
  - Journal, website, classes – outreach, building awareness
  - Inner development – inreach, becoming builders
  - Moral interface to machines – cultivate
- MysTech.co: devoted to cultivating moral technologies
  - Founding meeting June 12, 2017, 10 founding members
  - Exploring waves, resonance, harmonics, boundaries, more

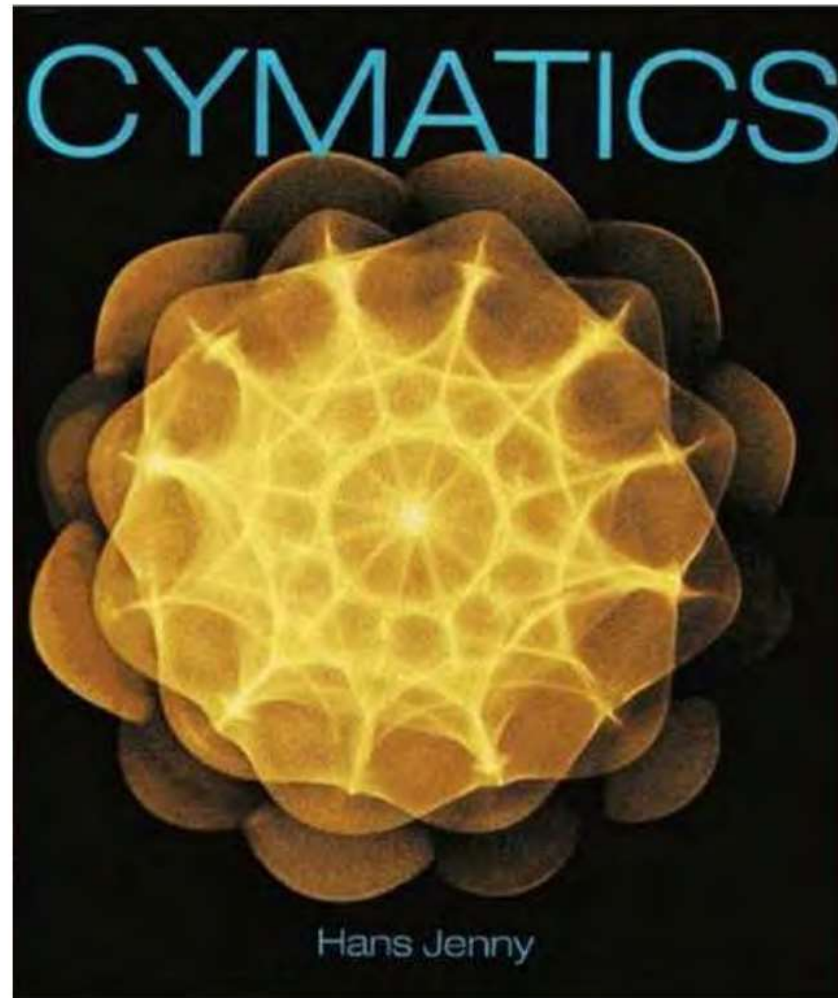
More info at: <http://rudolfsteinerbookstore.com/product/mystech-membership/>



# RESEARCH AVENUES

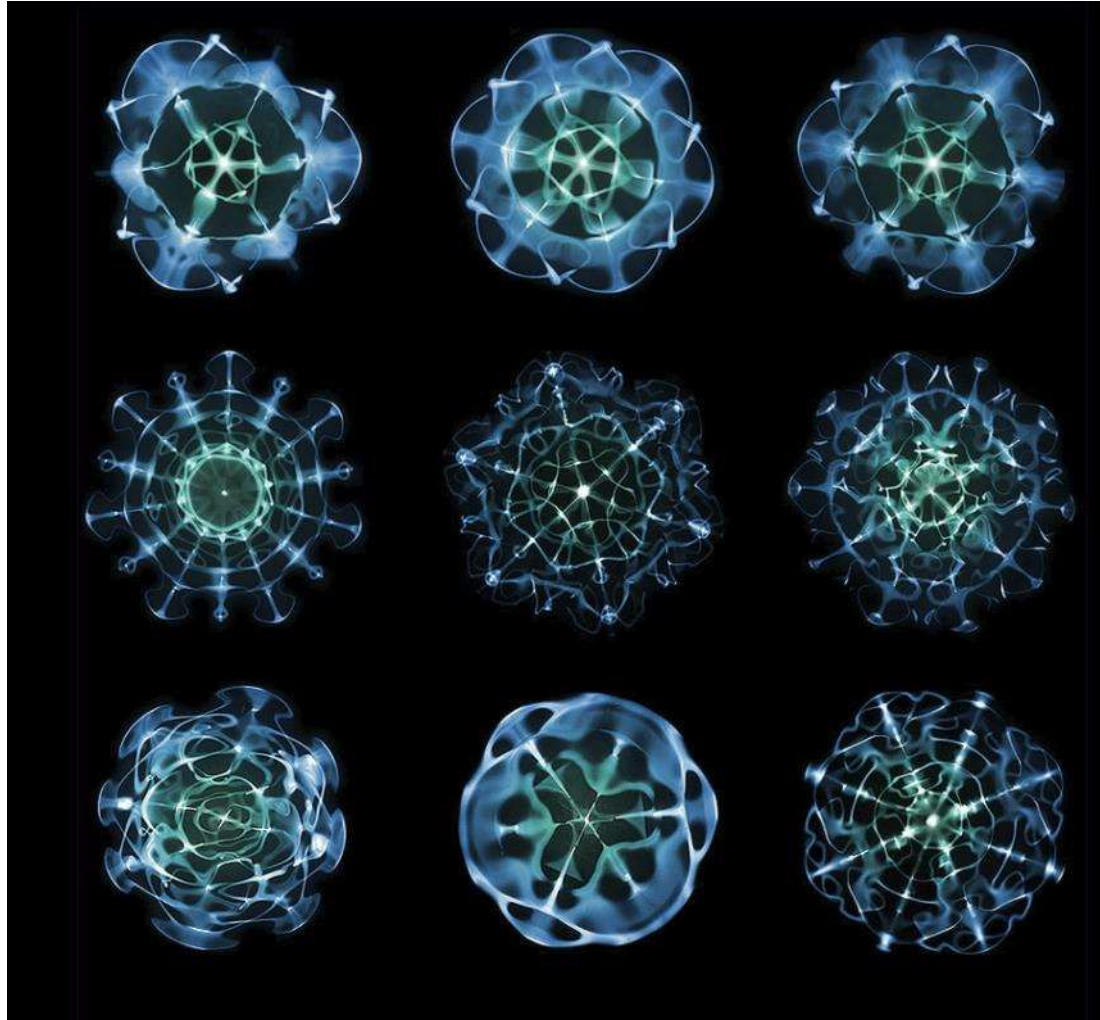


# MysTech Pioneer: Hans Jenny



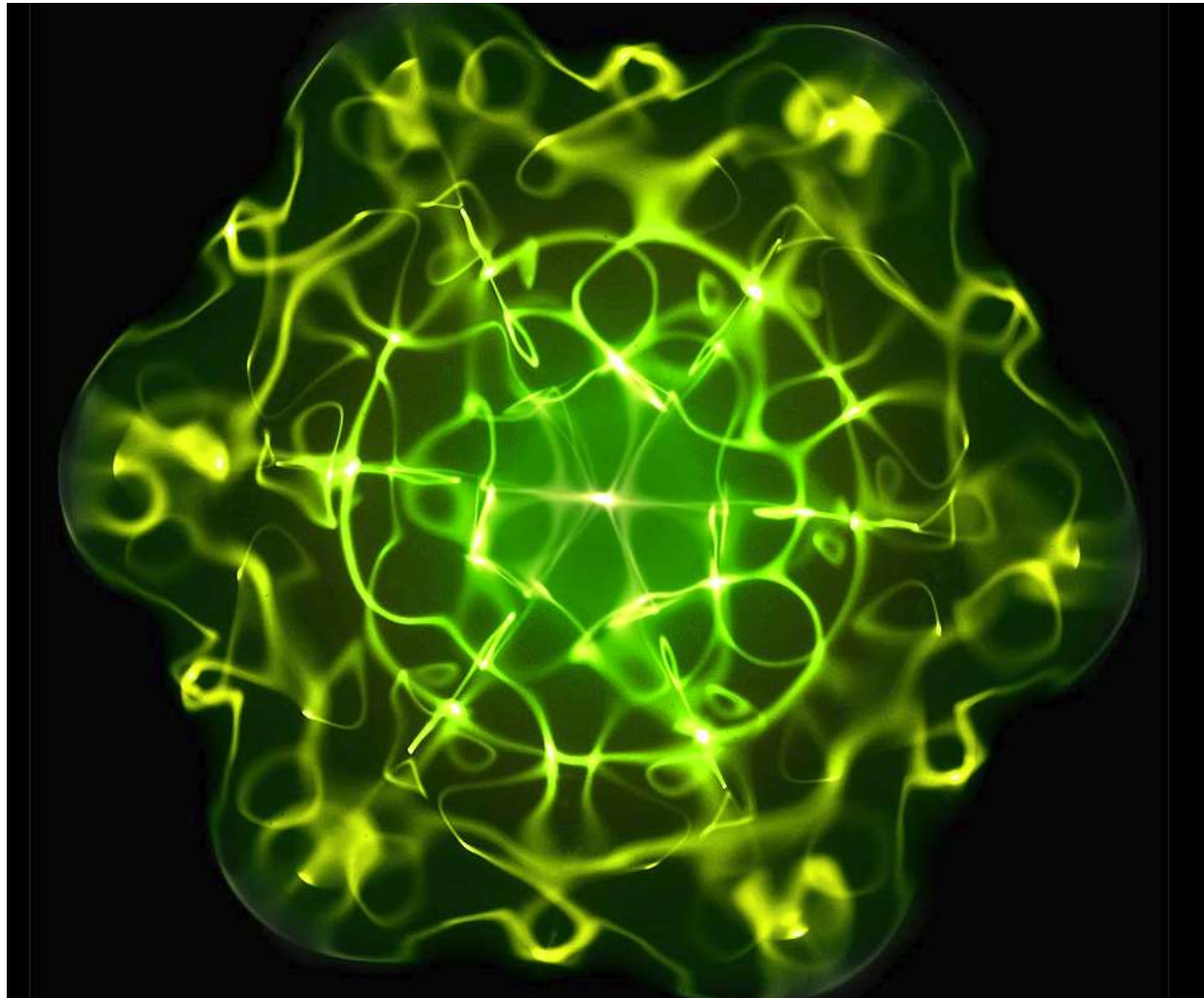
# Cymatics.org

14hz to  
30hz  
sweep.  
Square  
wave



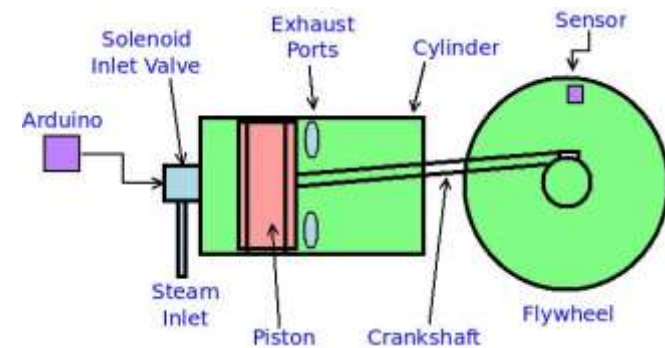
Cymatics.org

Sine  
wave &  
alcohol



# What is Technology?

## *Overcoming Our Fears*



- Offers emancipation from labor (and from Nature)
  - Allows mankind to rise above (“to conquer”) Nature
  - Mankind becomes aware of its separateness (freedom)
- Who gave technology to humanity?
  - Hephaestus/Vulcan (God sourced)
  - Cain and Tubal Cain (Masonic tradition)
- “Tools” based on the **lifeless** of the human body
  1. Augment limbs (tools)
  2. Augment rhythmic (steam engine, piston)
  3. Augment nerve/sense (telescope, microscope, camera)
  4. Augment thinking (computers, AI) – *is it still just a tool?*
    - By taking on our dead thinking, are we freed for living thinking?
    - What will we do with our “free time”?



# When is Modern Technology OK to Use?

- Transition Era: are children differently ‘equipped’?
- Let the foundations be constructed first
  - From where does a baby come?
- When the human “motor system” is ready (after)
  - Age 0: physical body born. Age 7: etheric body. 14: astral body
  - Importance of Play, Imitation of the Human
    - Lead by example like a god
- When what is built from above is ready for Earthly life
  - Puberty
- Importance of Movement
  - Postural alignment. Eurythmy. Rhythms. Harmonic oscillations.



# Known but unspoken tech problems

Source: [HuffingtonPost](#)

1. Rapid brain growth continues until age 21
  - Delayed development results from insufficient movement
  - Epidemic obesity correlates with video game use
2. Sleep deprivation
  - 60% of parents do not supervise their child's technology usage, and 75% of children are allowed technology in their bedrooms
3. Mental illness
  - Technology overuse as a causal factor in rising rates of child depression, anxiety, attachment disorder, attention deficit, autism, bipolar disorder, psychosis
4. Aggression from violent media content
  - Poor manners, irreverent
5. Digital dementia: decreased concentration ability
6. Addiction
7. EMR emissions (cordless phone, WiFi router)



# Children and Technology

Source: [HuffingtonPost](https://www.huffpost.com)

| Developmental Age | How Much?   | Non-violent TV | Handheld devices | Non-violent video games | Violent video games | Online violent video games and or pornography |
|-------------------|-------------|----------------|------------------|-------------------------|---------------------|---|
| 0-2 years         | none        | never          | never            | never                   | never               | never   |
| 3-5 years         | 1 hour/day  | ✓              | never            | never                   | never               | never   |
| 6-12 years        | 2 hours/day | ✓              | never            | never                   | never               | never   |
| 13-18 years       | 2 hours/day | ✓              | ✓                | limit to 30 minutes/day |                     | never   |



# Children and Technology

- **Screen (blue light) time**
  - Disrupts sleep, desynchs circadian rhythm
  - Desensitized the brain's reward system
  - Light-at-night linked to depression
  - Stress reactions, hormonal, irritability, addiction
  - Overloads sensory system, fractures attention, depletes mental reserves
  - Limits movement, physical activity, and “green time”
- [“Screentime is Making Kids Moody, Crazy, and Lazy”](#)
  - Psychology Today, Victoria Dunckley, M.D.
  - ***“Wired and tired”***
  - Chronic high arousal levels impact memory and relations
- [Digital Heroin](#), [Glow Kids](#)
- Let them **recapitulate** human history
  - Up to grade 8





# Passive VS Active Screen time

- <http://education.penelopetrunk.com/2013/04/11/kids-who-play-video-games-do-better-as-adults/>
- Video games are mentally active
- Research showing:
  - Gamers are better at jobs that are intellectual
  - Gamers do better in jobs that are active
  - Gamers are happier over the long run
- TV is a bigger culprit (of passive, captured mind)



# Cell Phone Safety

- No Children Allowed: Cocaine for Kids
  - <https://www.facebook.com/HealthForAllKids/videos/301316260295203/>
- Keep your phone distant, especially from organs
  - Use the speaker phone
  - Send text messages
  - Use a headset
  - Do not sleep with your cell phone near you

Intensity  $\sim 1/\text{distance}^2$
- Limit your cell phone use
  - Especially when reception is weak, e.g. only one or two bars
  - Keep cell phone calls short
- Wireless and wired headsets emit EMFs even when you are not using your phone



# EMR Sources

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

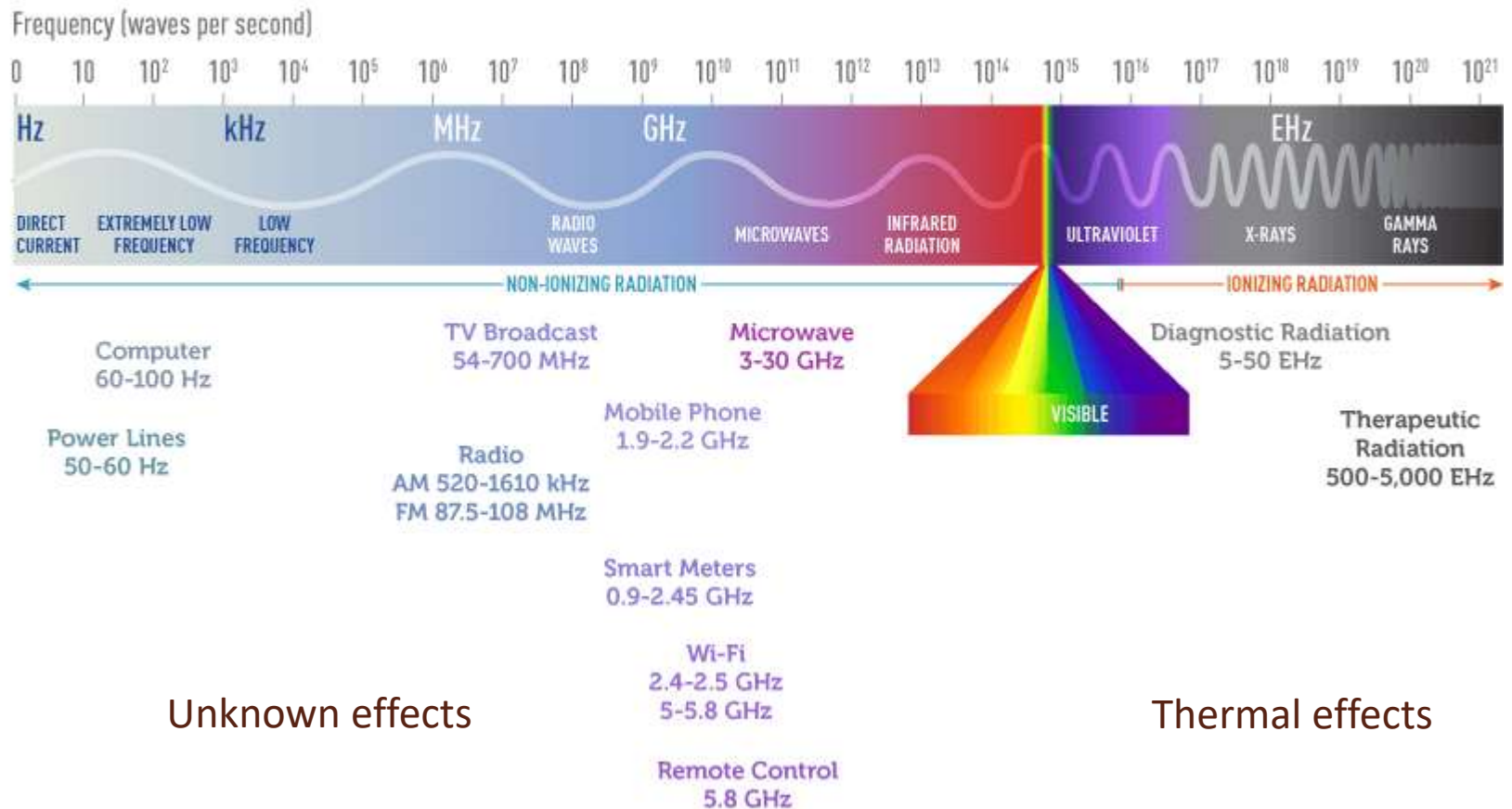
## Protections

- Time of exposure
- Distance from source
- Shielding

# Types

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

# Electromagnetic Spectrum



Unknown effects

Thermal effects

Steiner indicated that this EMR linear spectrum is invalid.





# Electromagnetic Hypersensitivity

Study describes a science-based protocol for evaluating patients for electromagnetic hypersensitivity (EHS)

- **EHS** has been *mischaracterized as a psychological issue*, resulting in profound suffering and violations of basic human rights
- "These different tests can be performed under less polluted, environmentally controlled conditions to diagnose chemical and electrical sensitivity precisely"
- Takes the guess work out of the diagnosis
  - Performed in 30,000 patients seen at the EHC-D in the last 35 years
- "The pitfalls of ignoring the principles and facts developed,...can lead to errors in diagnosis and treatment"

Source: Dr. William Rea of the American Academy of Environmental Medicine article: *History of Chemical Sensitivity and Diagnosis*

- <http://www.degruyter.com/downloadpdf/j/reveh.ahead-of-print/reveh-2015-0021/reveh-2015-0021.xml>



# Possible Issues

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

# Remedies



- Generational differences
- EMR-“free” zones in your home
  - Children’s bedroom (no wireless monitors)
  - Ethernet cables or turn off Wi-Fi at night
- Where you carry it (mobile phone)
  - High EMR while talking – use speakerphone
  - Don’t sleep with your phone or carry close to body
- Movement (vs longing for comfort)
  - Mind/Soul – passive vs active
  - Body and posture – wholeness in movement, standing desks
  - Senses – move your focus, variation (temperature, distance, ...)
  - Etheric exercises
- Lifestyle (longing to be entertained vs to do)
  - Fasting, friends, food, nature, ...
  - Diet: High Oxygen Radical Absorbance Capacity (ORAC) foods

# Recommendations



1. Measure your home's EMR
  - Android [app](#) (Kirlian Photography)
  - iPhone [app](#) (Fallen Angel Creations)
2. Place screen near window – look outside often
  - 20-20-20 rule: Every 20 minutes, look at something at least 20 feet away for 20 seconds
  - Go everyday, same time, for an hour walk
3. Get up once per hour, 10K steps per day
  - Move, get tea
  - Barefoot on the earth
4. Shut down at night
  - And at dinner, make it engaging
5. Annual blood tests

# Jennifer Gidley

- Australian psychologist and educator
- University of Technology, Sydney
  - Institute of Sustainable Futures
- President of the *World Futures Studies Federation*
- On Australian **Steiner** National Curriculum Project team
- “We are at a critical point today in research into human futures. **Two divergent streams** show up in the human futures conversations. Which direction we choose will also decide the fate of earth futures in the sense of **Earth’s dual role as home for humans, and habitat for life.** ...
  1. **Scientistic:** dehumanising, and atomistic, based on a mechanistic, behaviourist **model of the human being**, with a thin cybernetic view of intelligence.
    - The **transhumanist** ambition to create future techno-humans is anti-human and anti-evolutionary. It involves technological, biological, and genetic enhancement of humans.
  2. **Humanitarian**, philosophical, and ecological, based on a view of humans as kind, fair, consciously evolving, peaceful agents of change with a responsibility to maintain the ecological balance between humans, Earth, and cosmos” -- *Contrasting Futures for Humanity: Technotopian or Human-Centred?* Paradigm Explorer, Sept. 2017

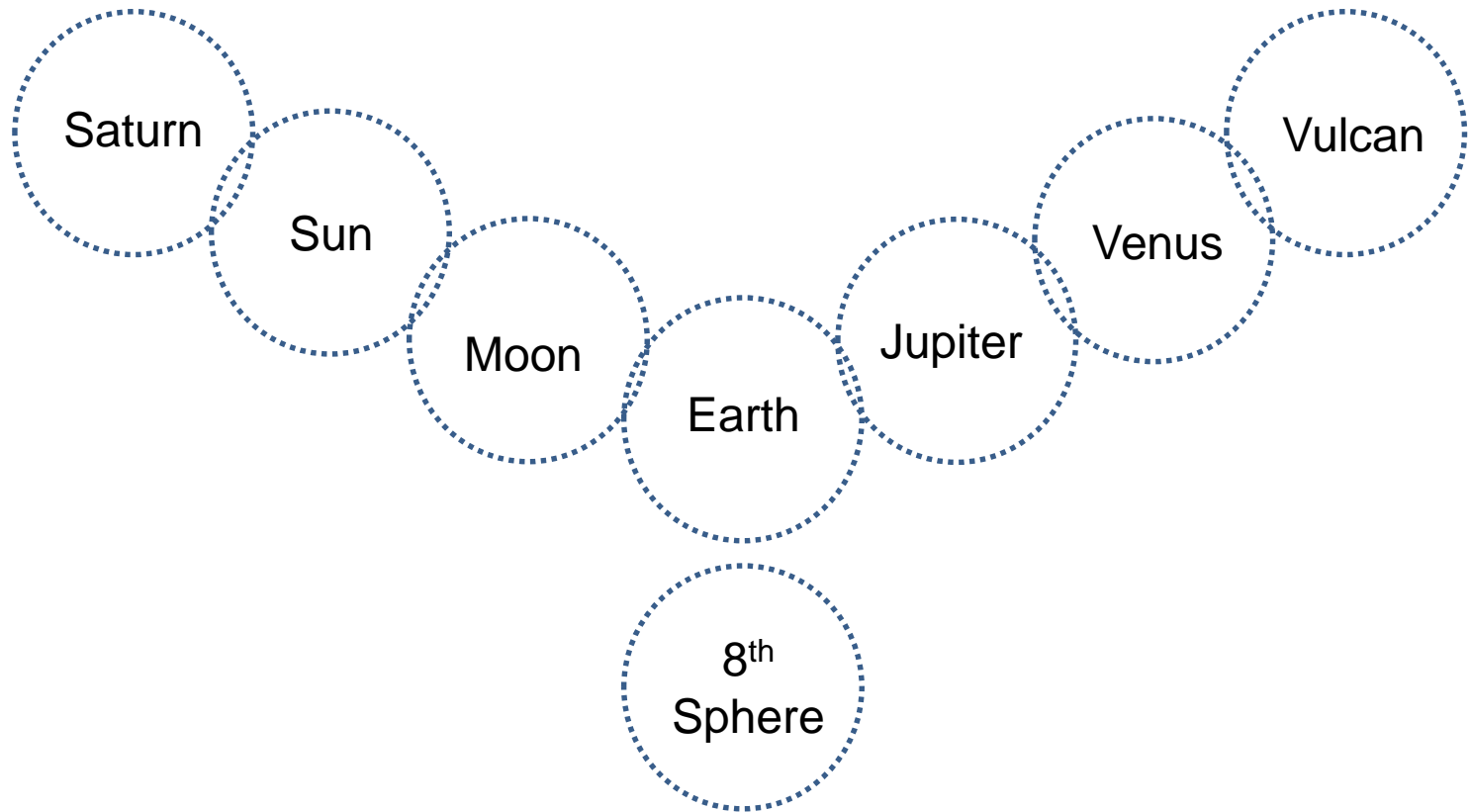




# Other Work and Groups

- Advocates for Safe Technology
- **Women's Initiative to Reduce Electro-Smog**
- Dr Mary Redmayne







# TECH AND EDUCATION

[Eliaant Position Paper on Digital Media and Childhood](#)



# What Constitutes Good Education?

- Draws out from within
- Many Studies, e.g. John Hattie (2008, 2011)
- The teacher's inner being, character, love, wisdom
- Learning without a teacher – ineffective
  - App on screen as teacher – very ineffective
  - Robot as teacher – ?
- Teacher's role
  - Activator of the inner (soul), respectful & loving
  - Coach, grading & grating



# Hand-Eye SensoriMotor Skills

- 2-D surface lacks depth
- Eye movement restricted to the plane
- Sensory wholeness not active, not practiced
  - 12 Senses work together
  - What is absorbed through the senses?
  - Experience of wind, warmth, and light
- Compare:
  - Experience of images while outdoors or in classroom
    - Recess
  - Experience of images while online
    - Computer gaming



# Learning thru Bodily Interaction

- Balance while in movement
- Experience of whole body during movement
  - Resistance, support, surface, texture, viscosity, moisture
  - Separateness (ego), agency, ability to alter, change environment
- Experiences before their abstraction
- Affect on cognitive and social learning
  - Impairments (Leonard 2016)
- ADHD training ground
  - Computer gaming: very rapid mental reaction
  - No past or future, total absorption in the game
  - Addiction, dopamine stimulation



# Effects of Digital Exposure

- Diminished eye contact, social interaction, interaffectivity
- Undeveloped social skills: collaboration, group-work
  - Ekeocha & Brennan (2008): individual memory of an event was significantly worse after watching a movie on computer screen alone than at a theatre with 2 or more others (thought to be due to group discussion afterward)
- Fear of social exclusion





# Extensive Digital Media Use

- Zimmerman (2007): Impairs language acquisition, attention disorders
- Weis & Cerankosky (2010): Impairs reading and writing, behavior at school
- Richards et al. (2010): Impairs empathy
- Sanders et al. (2000) and Lepp et al. (2014): Depression, less satisfaction, impairs school performance
- Zheng et al. (2014): Increases ADD
- Hancox et al. (2004): Increases obesity
- BLIKK (2017, 5500 children): impairs concentration, play ability, language, and increases hyperactivity & obesity



# Empathy

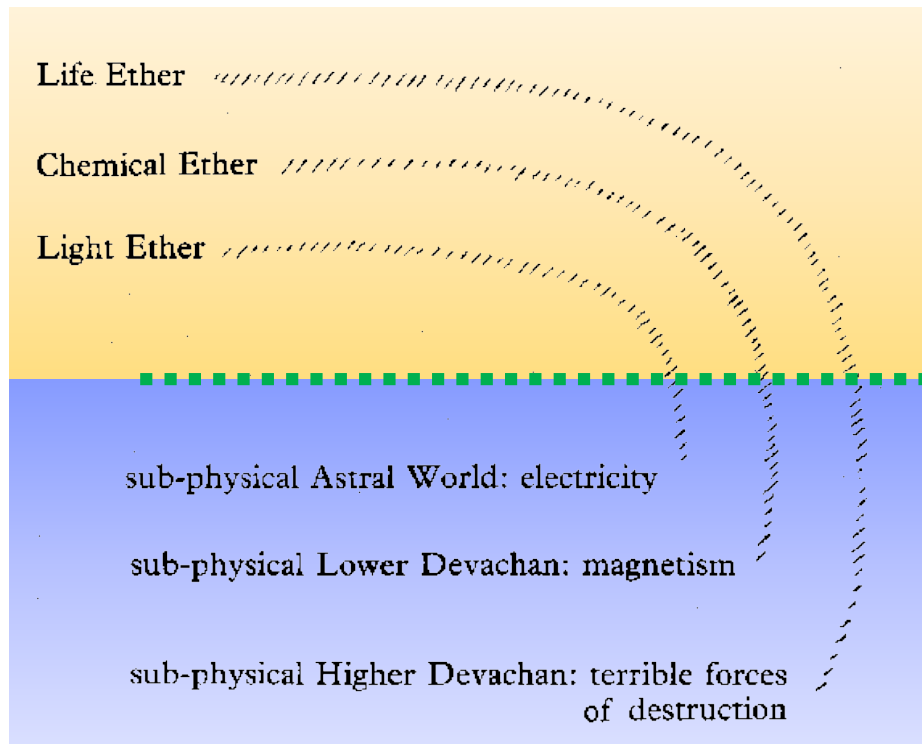
Konrath et al. (2011)

- Drew from 72 studies between 1979 and 2009
- Decline of 40% in American college-aged students
- Most of the decline from 2000 to 2009.



# Conclusions

- Use of digital media during childhood negatively affects
  - Cognition
  - Emotional skills
  - Social skills
- Well-being with a warm human being as teacher
- Childhood sensory experiences cannot be replaced by computer images – play time
- Education of the child must include teacher and
  - Exploration and acting (imitation)
  - Feeling/emotional coupling (variety)
  - Understanding through the body before using abstractions






# The Second Fall

- "Ahrimanic powers will intervene more and more and Ahrimanic spirits will also use human bodies for other things. A time will come when Christians will have to ask themselves seriously when they meet this or that human being: Is that really a human being or is it a very loose mantle for Ahrimanic spirits? In the future one will have to make this distinction in addition to the other ones one has to make today. This will be the second fall, and the beast and his herald will take possession of human bodies. Thereby these demons will have fallen. So first we have the fall of corrupt human beings and then the fall of certain corrupt spirits, who are close to men. These spirits take a tumble in the second fall." – Apocalypse, lecture 11, September 15, 1924, GA 346  
<https://wn.rsarchive.org/Lectures/GA346/English/UNK1995/19240915v02.html>
- One interpretation is that the time is coming when robotics will succeed in creating a machine that looks very much like a human being.





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- According to the Environmental Protection Agency (EPA), the average American spends 93% of their life indoors. 87% of that time is spent inside, while the other 6% is spent in automobiles. This means that only 7% of the average American's life is spent outdoors. This is unfortunate considering that spending time outdoors is one of the easiest ways to improve your overall health and wellbeing.



# Search, Email, & other Alternatives

- <https://www.techspot.com/news/80729-complete-list-alternatives-all-google-products.html>