



TECHNOLOGY AND THE HUMAN BODY

Exploring The Western Path

COMMENTS

Portland

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6/9/2017





SCHEDULE

www.thechristianmysteries.com

March 24, 2017 Lecture

- 19:00 – 20:30 **Technology and the Human Body – The Western Path**

March 25, 2017 Workshop

- 08:45-09:00 Registration, social time, tea/coffee
- 09:00-09:05 Welcome, Introductions (*be prompt*)
- 09:05-10:30 Merging Through Rhythms and Ethers
- 10:30-11:30 Eurythmy: The Three Movements with James Knight
- 11:30-12:30 Discussion: Protecting, Countering, Confronting
- 12:30-01:30 Lunch (BYO) together
- 01:30-02:30 Mythology and Facing the Future Without Fear
- 02:30-03:00 Eurythmy exercises and tools for balancing technical work
- 03:00-04:00 Structured Discussion: The Challenge of Our Times

OVERVIEW

- Background: Technology's Role in Evolution
 - Role of the Moon
 - Build our courage through comprehension
- Issues We Face Today
 - The scary part
 - Tim Cook, Apple
- Surprising Perspectives from Spiritual Science
- Conclusions

*"I'm not worried about artificial intelligence giving computers the ability to think like humans," he said.
"I'm worried about people thinking like computers without values or compassion." – 9Jun17 @MIT*



"Does your car have any idea why my car pulled it over?"



VERSE FOR TONIGHT'S TALK

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



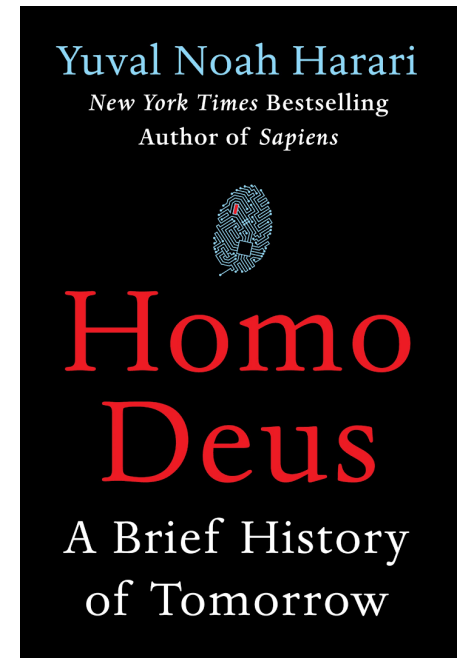
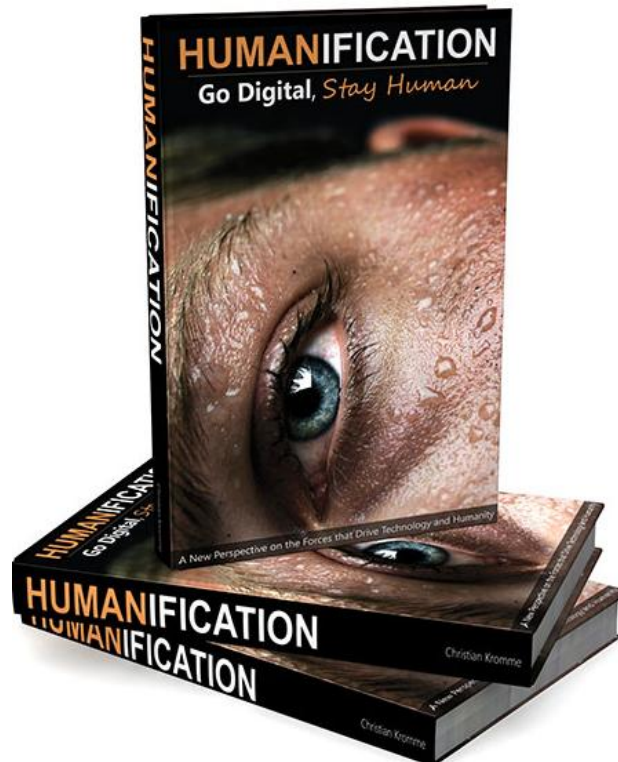
WHAT IS THE HUMAN BEING?

- Are we our consciousness or our body? Our bodies?
 - Soma, psyche, pneuma
- Earth-water-air-Warmth-light-tone-life
- Evolution: are we a beginning or the end?
 - What is our archetype?
 - Fatalism or Karma?
- Are we One or Individuals?
- Manichaeian Legend of Light and Dark
- Man as an expression of the whole Cosmos



FORMING THE FUTURE

- Consider the **cosmic beauty** that works by way of the head: there you have the **feminine** contribution
- The **male** contribution is the force that appears in a man's **earthly strength**
- In the act of **fructification** a union is consummated between the cosmic and the terrestrial
- The **form** of a human being is connected with **repeated earth-lives**
- In our **limb-system**, one is forming **the future**
 - For the forces in the limb-system to be spiritualized, imbued with soul, the limb-system must pass through death
 - *The Shaping of the Human Form out of Cosmic and Earthly Forces, GA 202*



WHAT HAPPENS WHEN WE NO
LONGER HAVE A PHYSICAL BODY?



MAY YOU LIVE IN INTERESTING TIMES

- Atlantis: Land of Mists. Spiritual beings. Etheric body.
- “As [the Atlantean] Man gradually enclosed himself in his physical consciousness, the door of inner vision was closed. Darkness surrounded him when at night he left his physical and etheric bodies and entered the spiritual world.
- To the extent to which he confined himself, to the same extent arose the external light which represents the deeds of the spiritual beings of the sun; the light of the spiritual beings shone externally upon the earth. Man prepared himself to look upon the external light as something material.
- **The light shone in his then darkened inner being, but the light was not then comprehended by his darkness.** This is a world-historical event. Man bought his self-consciousness at that time through spiritual darkening. In this way man grew out of the brilliance connected with the group-souls. But it was only the very first dawning of the individuality.”
- Atlantis had to come to an end – *Apocalypse of John*, lecture 6, GA 104

PRELUDE

- In terms of evolution, we are past middle age
 - “Evolution itself is evolving” – [Dangerous Things](#)
 - Are we about to eliminate all diseases? Live forever?
- Are we in danger of losing something precious?
- Are we children playing with fire?
 - Who is our nanny?
- Are we already co-creating the future? Transhumanism?

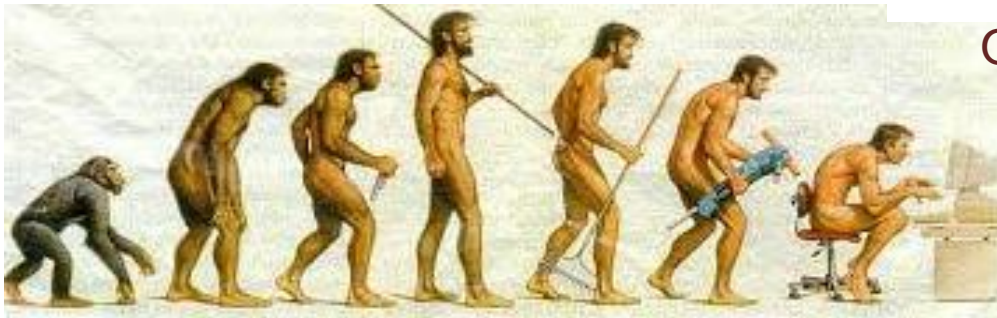


WHAT IS THE HUMAN?

Where is our head?



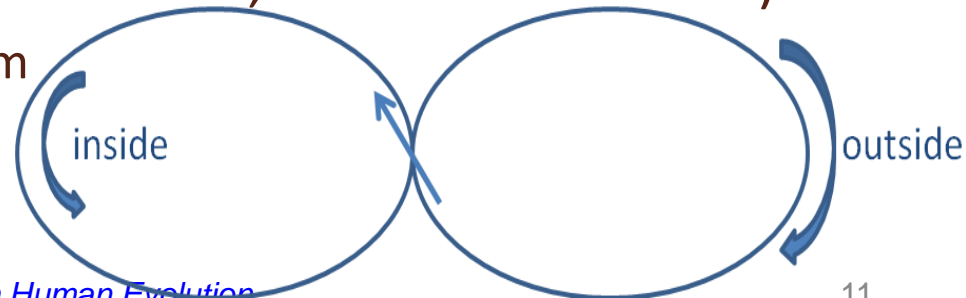
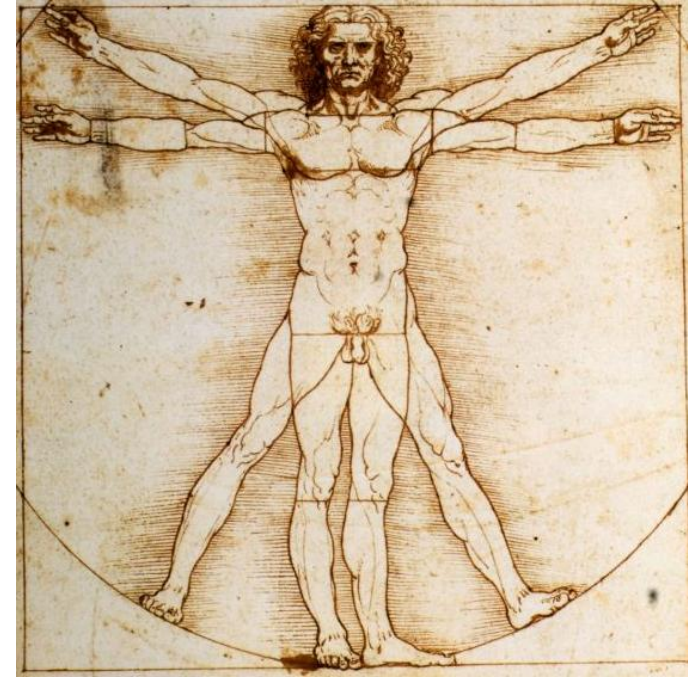
On what do we stand?

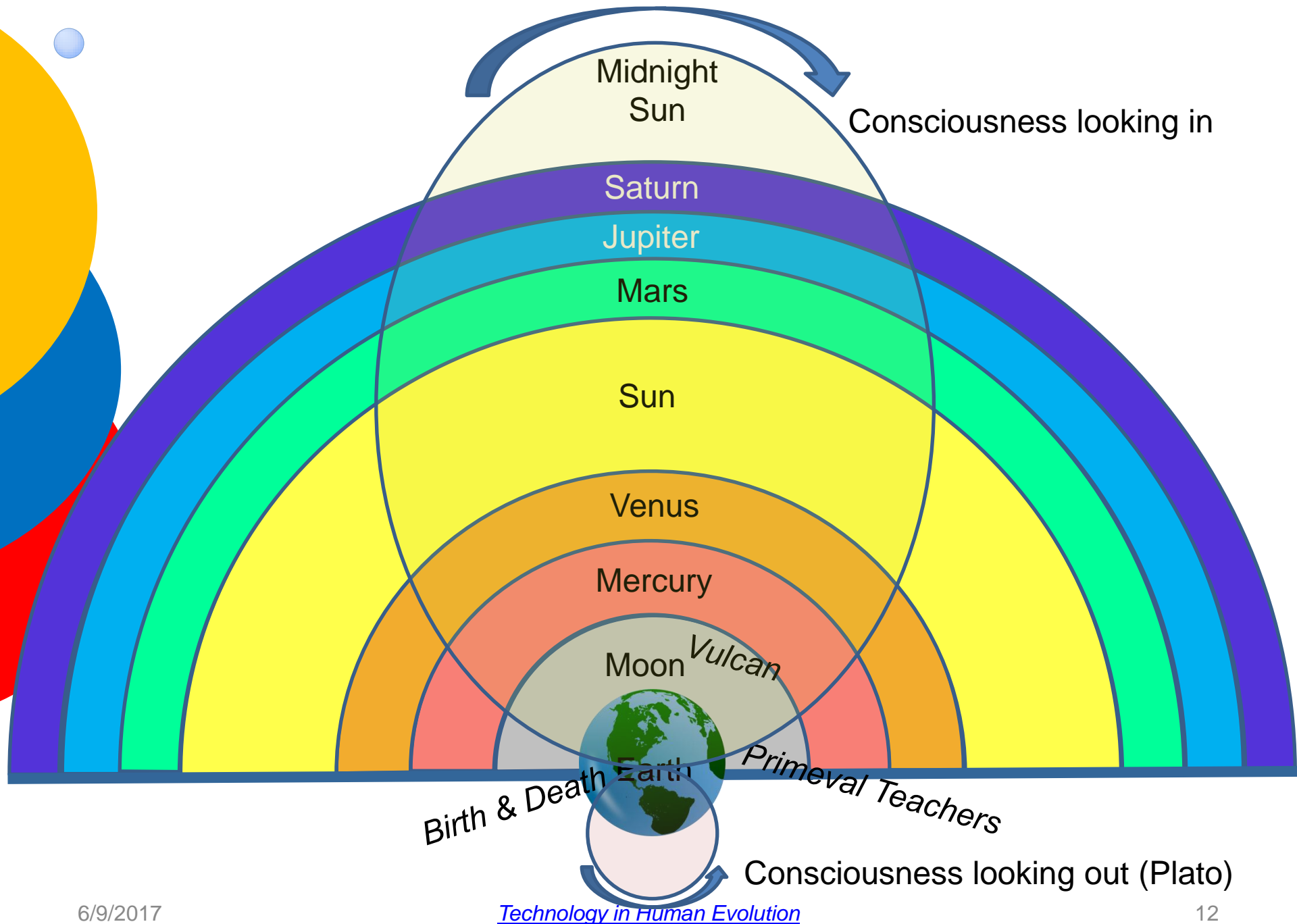


Or do we sit all day?

WHAT IS THE HUMAN?

- Humanoids: say what we are **not!**
 - Humor
- Historical understanding
 - Materialism
- Anthroposophy (4-fold body)
 - Physical, for this life on earth, enclosed within skin, center-out
 - Etheric, livingness, cells (rocks have no cells), mem, periphery-in
 - Astral, sensations, inner-life, emotions, consciousness, radiate
 - Ego, I, higher purpose, moral, sacrifice
- Anthroposophy (3-fold members, 9-fold constitution)
 - Macrocosm – Microcosm
 - Body, Soul, & Spirit





PAST EVOLUTION OF MANKIND

Not to scale

Sun departs

Adam and Eve

Moon departs

Abel and Cain

Incarnation
begins

Seth

Hiram

Earth-Man

MOON AND EARTH WERE ONCE ONE

- Apollo missions samples (1970s)
 - Moon has the same signature as Earth
 - Three stable isotopes of oxygen
- 2016: more accurate measurements
 - Confirmed identical compositions
 - Challenge for models
 - Potassium isotopes
 - The mantle atmosphere
 - “Supercritical fluid”
 - Without distinct liquid and gas phases

<http://www.futurity.org/moon-potassium-isotopes-1246082-2/>



Lunar Olivine Basalt 15555
[National Museum of Natural History](#)

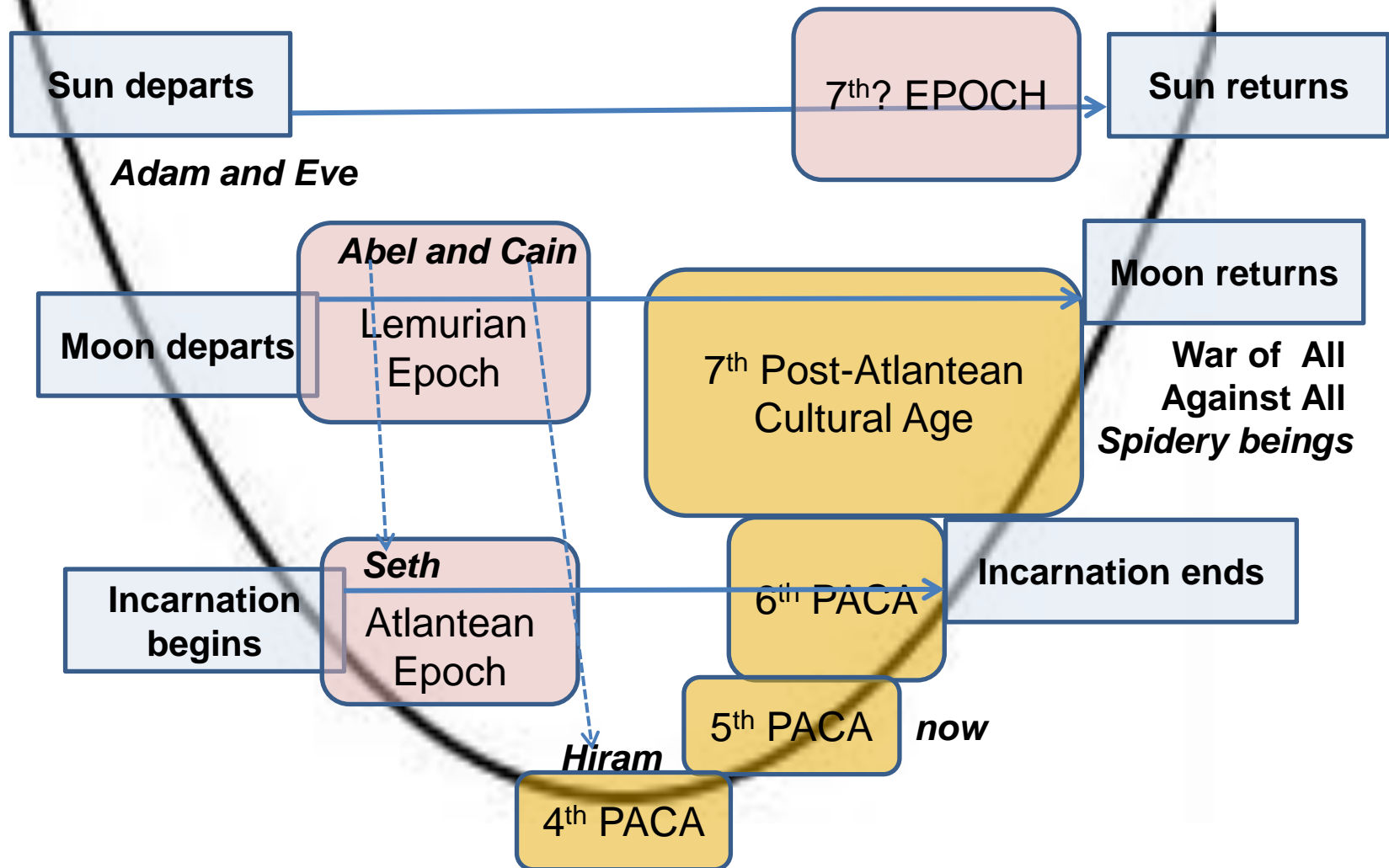
WHY DID THE MOON LEAVE?

- Earth would have cracked & crumbled into lumps of dust
 - It will crumble into cosmic dust when its cosmic goal done
 - Earthly matter will be dissolved in cosmic space as cosmic dust when man has passed through his evolution upon it
 - We will be involved in cleaning our “play room”
 - Earth saved from early dust by the withdrawal of moon
 - Jahve imprinted moon-earth-dust into the human body
 - “Jahve-Elohim formed man of the dust of the [then] earth”
- *Genesis*, Lecture 9

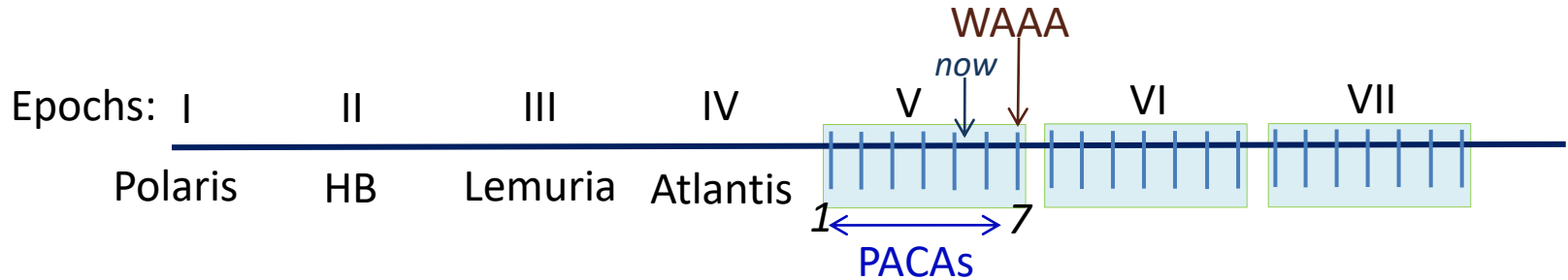


EARTHLY EVOLUTION OF MANKIND

Not to scale



SEVEN EPOCHS WITHIN EARTH-CONDITION

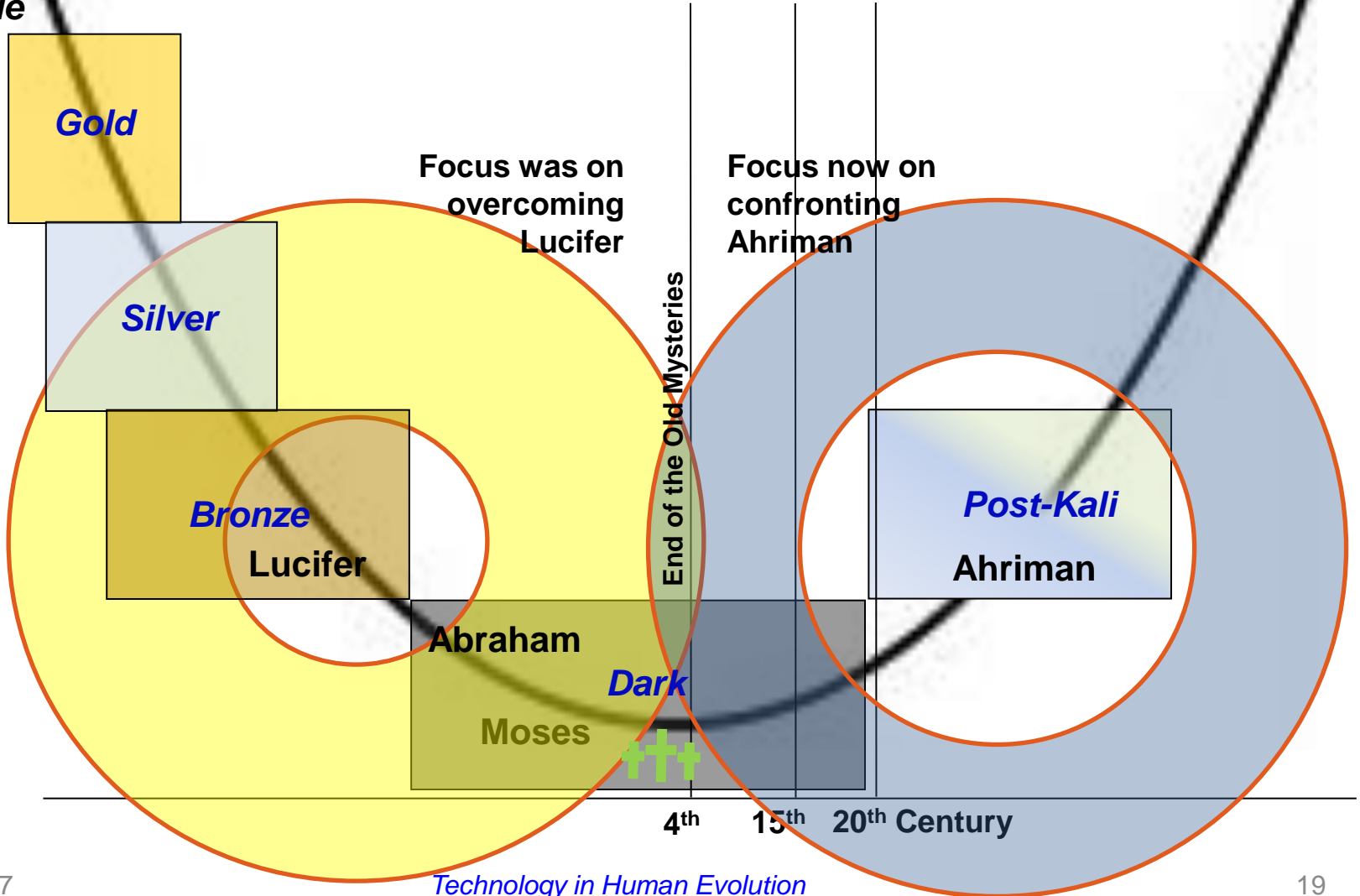


- “In the **7th PACA** of civilization, this War of All Against All will break out in the most terrible form
- “Great and mighty forces will be let loose by the **discoveries**, turning the whole earth-globe into a kind of live **electric mass** [with spidery beings]
- “In a way that *cannot be discussed*, a tiny handful will be protected and preserved”
- R. Steiner, *The Atom as Coagulated Electricity*, GA 93, 24 Dec. 1904

Age

POST ATLANTEAN HISTORICAL PICTURE

Not to scale





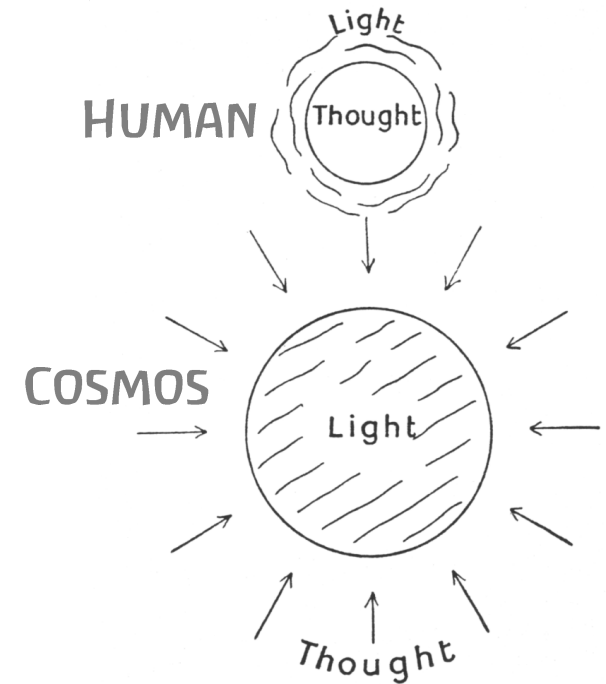
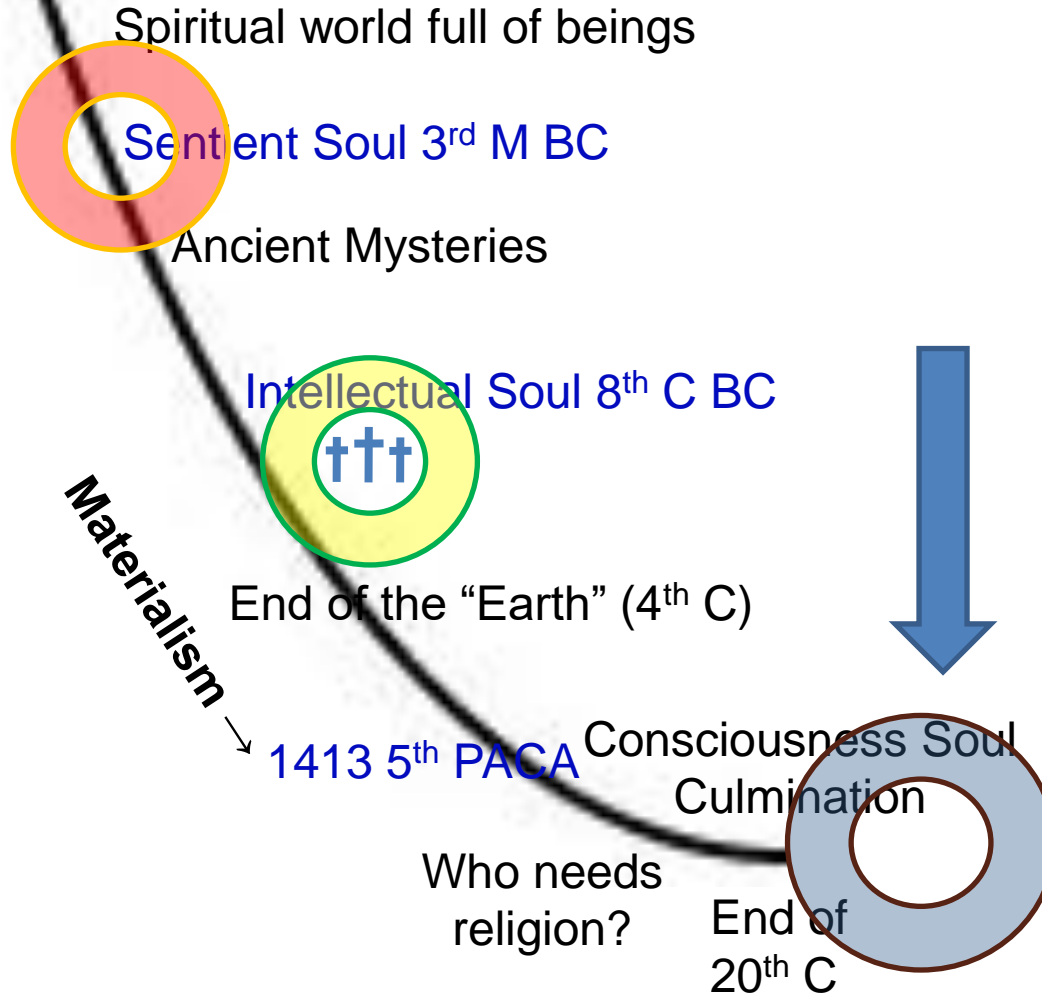
LIGHT IS GOOD AND DARK EVIL – RIGHT?

- The old Persians, when they felt the **past decaying in light**, with their instinctive clairvoyance, they called it **Ahura Mazdao**, and when they felt the **future in the darkening will**, they called it **Ahriman**.
- And now you have these two world-entities, light and darkness — the living thought, the **decaying past** in light, and the growing will, the **coming future** in darkness.
- If we get so far that we regard thought no longer merely in its abstractness, but as light, that we regard the will no longer merely in its abstractness, but as darkness, in its material nature; if we get so far as to be able to regard the **warmth**-content, for example, of the light-spectrum, as being connected with the past, and the material side, the **chemical** side of the spectrum as being connected with the future, we pass over from the purely abstract to the concrete.
- We are no longer such dried-up, pedantic thinkers, merely working with the head; we know that what does work in our heads is really the light that surrounds us.
- And we are no longer such prejudiced people as to have only pleasure in light: we know also that **in the light is death**, a dying world. We can sense the world-tragedy in the light. We can also get from the abstract thought to the **rhythm** of the world. And **in darkness we see the seeds of the future**.

Colour, Lecture 1, Thought and Will as Light and Darkness, 5Dec1920, Dornach, GA 291

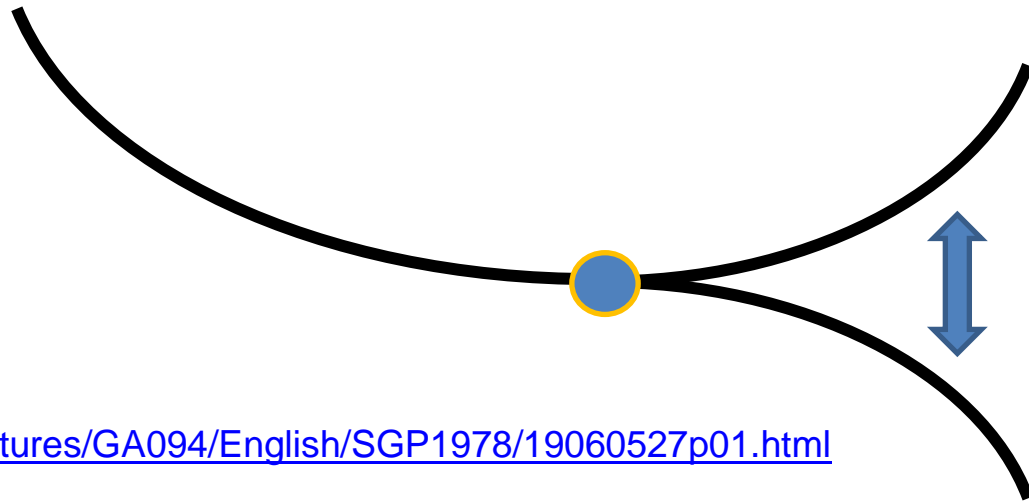
EVOLUTION OF CONSCIOUS AWARENESS

Not to scale



WHERE ARE WE HEADED?

- Into sub-nature?
- Into supra-nature?
- Both!
 - Rosicrucian science explains the role of Lucifer in the world:
“Know, O man, that through thy being flows a current which **ascends** and a current which **descends**”

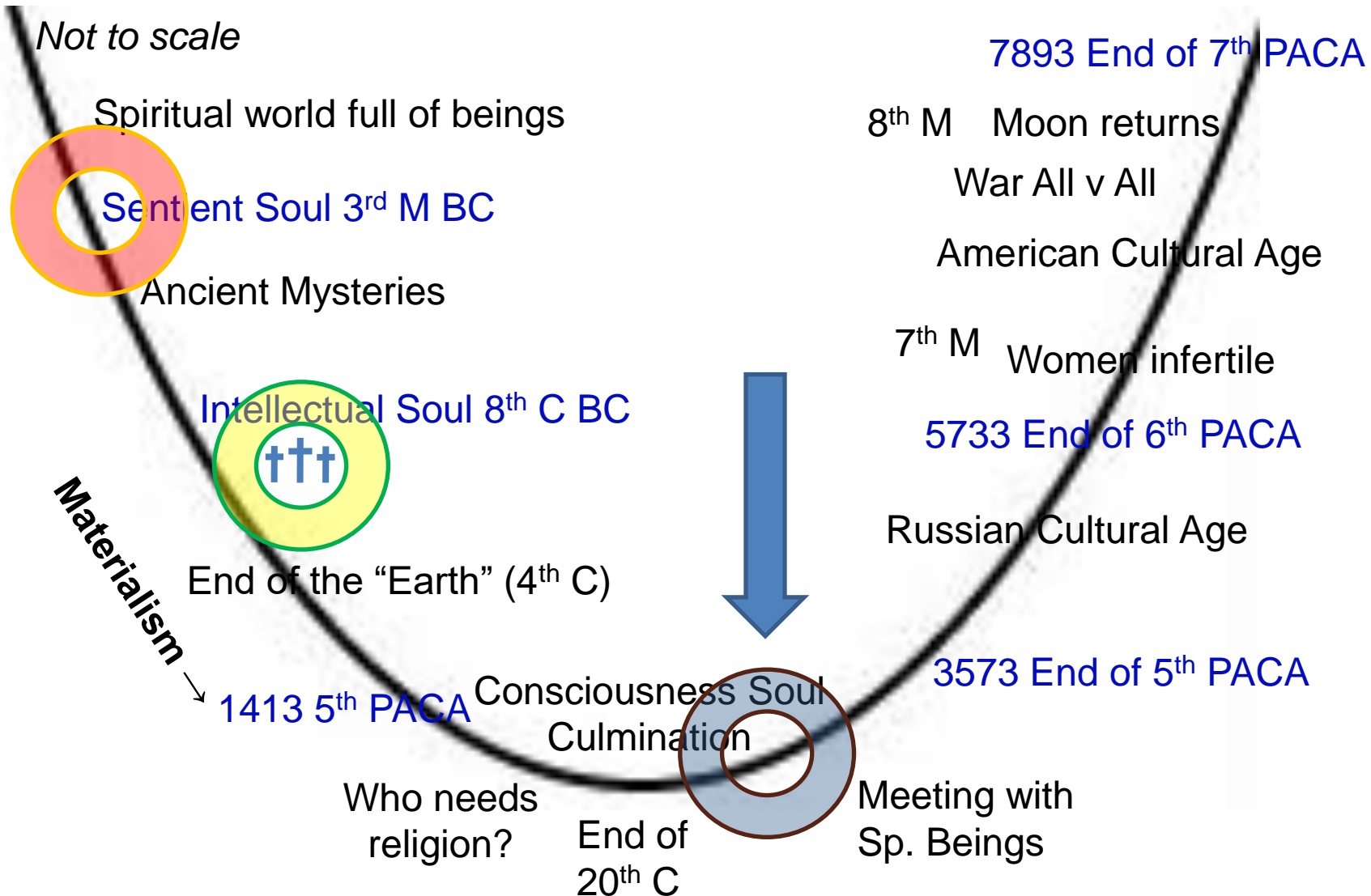


- Source:

<http://wn.rsarchive.org/Lectures/GA094/English/SGP1978/19060527p01.html>

EVOLUTION OF CONSCIOUS AWARENESS

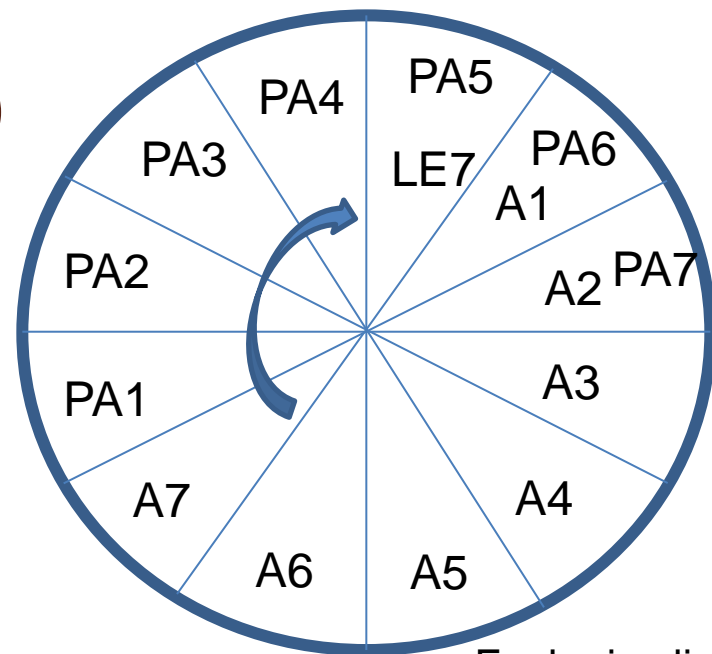
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BODY AIDS SOUL DEVELOPMENT BY AGE

- Lemuria (moon separated)
- Atlantis (phys incarnation)
- Post-Atlantean

- I. 56 49 earth
- II. 49 42 speech
- III. 42 35 stars
- IV. 35 28 33 – Christ
- 1879 V. 28 21 Today 27 (Michael's era)
- VI. 21 14 Year 4,000
- VII. 14 7 Year 6,000 – women are infertile
Year 8,000 – moon returns



Each pie slice
represents
~2160 years

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



“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



KNOWN BUT UNSPOKEN PROBLEMS

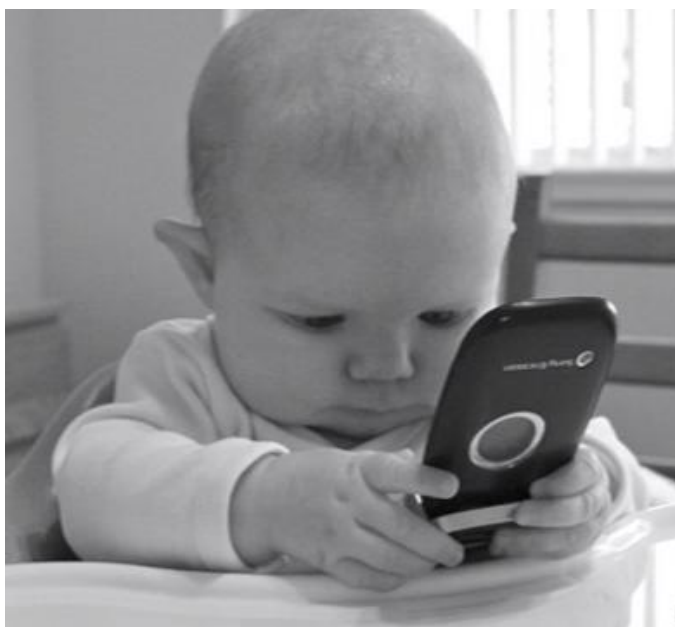
Source: [HuffingtonPost](#)

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

CHILDREN AND TECHNOLOGY

Source: HuffingtonPost

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

- Let them recapitulate human history
 - Up to grade 8
- [Digital Heroin](#), [Glow Kids](#)
- [“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
- Screen 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”



SOCIETY ISSUES

- Job Loss (up to 90%)
 - What will people do? Restlessness. Control of the masses.
 - Guaranteed base income tension with concentration of wealth
- Education (teacher-bots)
 - “Make teaching easier, fun” (AI will do all testing and scoring)
 - AI will be assistants (at first); student:teacher ratios > 50:1
 - Save on taxes (no busing, no building, much fewer on payroll)
- Medical
 - Inspection & initial (and final?)
 - Diagnosis by AI-nurse
 - Prescriptions by AI-doc
- Evolution? Transhumanism
- [Artificial Soul in Chatbots](#)



spirit

soul

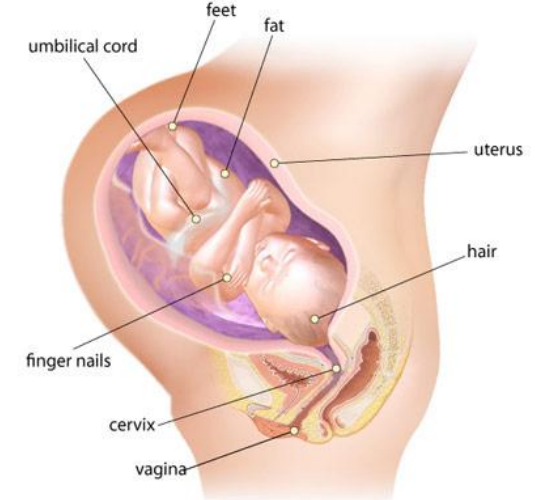
life



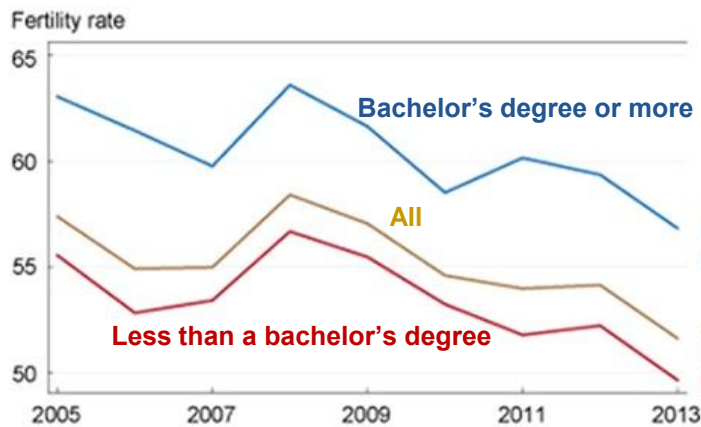
**WILL WE THROW OUT THE
BABY WITH THE BATHWATER?**

USA FERTILITY RATE

- Millennials prefer pets over children

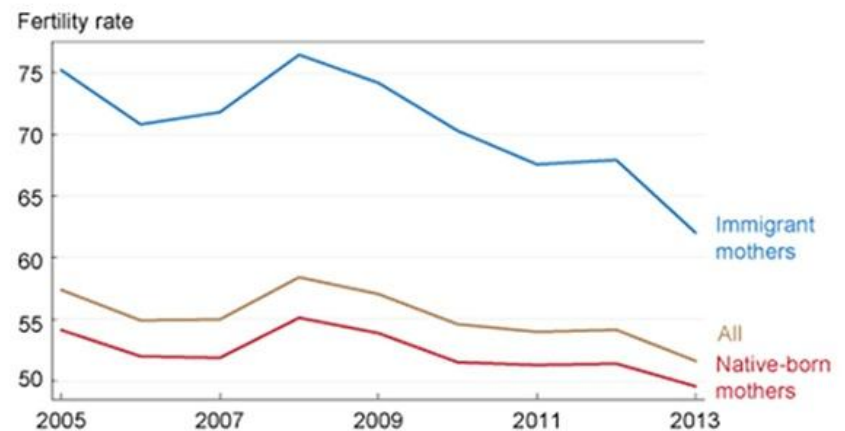


Fertility Rates by Mother's Education



Sources: American Community Survey and authors' calculations.

Fertility Rates of Immigrant and Native-Born Mothers

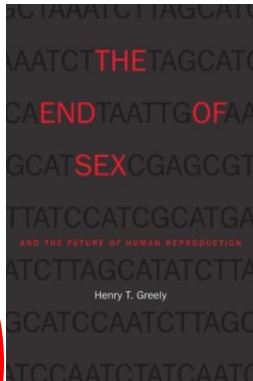


Sources: American Community Survey and authors' calculations.

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

FUTURE OF INCARNATING IN THE WEST

- *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
- 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
- Return to asexuality
 - Possible to generate eggs from male skin cells
 - Sperm from female cells
 - Cheaper and much easier than harvesting eggs from ovary
- Possible marketing
 - We cannot fully guarantee your child will be healthy, but here are over 4,000 diseases we can guarantee your child won't have
 - You spend \$30,000 on getting the car you want; how much is the baby you want worth to you?

EMANCIPATION FROM BIRTH

- Infertility
- IVF
- 3-Parents
 - Use the best
- CRISPR
 - Edit for best
 - Rid the worst
- Synthetic
 - Stem cells
 - Skin cells
 - Ready made adult (who needs childhood?)



AND SO IT BEGINS

Emancipation: Disabilities, Stroke, Paraplegics

- EEG skull cap
- Monitors activity
- Signatures = action



Source: <https://futurism.com/experimental-brain-implant-lets-a-paralyzed-woman-communicate/>
Passive BCI: fusing BCI technology with cognitive monitoring, providing information about the users' intentions, situational interpretations and emotional states to the technical system.
<http://iopscience.iop.org/article/10.1088/1741-2560/8/2/025005/meta>

WEARABLE ROBOTICS

- “I'm getting quite lately regarding companies, **Ekso Inc.**(OTC:EKSO).
- “As you know, the one of the most Trends of all - and profitable, too - is **Augmentation**. So revisit EKSO and, update some of that's going on.”
- www.totalwealthresearchn.com
- <http://futurism.com/paralyzed-monkeys-able-to-walk-again-with-brain-implant-human-trials-are-next/>



<http://eksobionics.com/ekso>
<https://www.newscientist.com/article/2112562-first-home-brain-implant-lets-locked-in-woman-communicate/>

EXOSUITS

- <http://biodesign.seas.harvard.edu/soft-exosuits>
 - Discovering the genius that built the human body





WHAT AI & ROBOTICS WILL DO

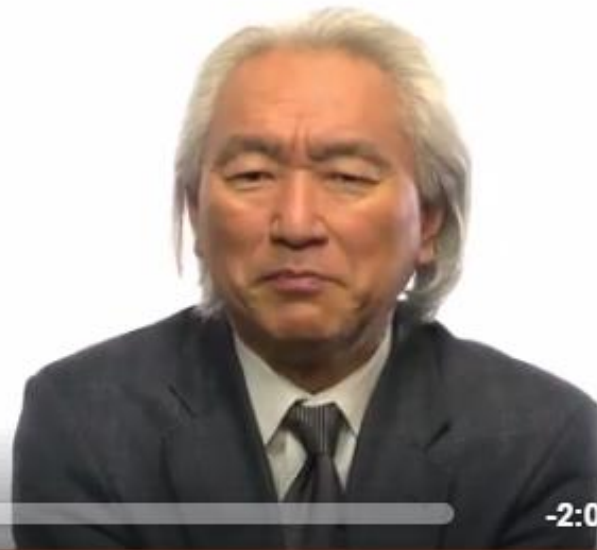
- Emancipation
 - Labor (paying people for their labor, is an illusion)
 - Universal Basic Income
 - Personal catastrophes
 - Dead thinking (transcranial direct current stimulation?)
 - Physical body
- New life
 - Social, groupings, intelligence-equality
 - Freedom for creativity
 - Breakthrough to spiritual science
 - Experience body as a sheath, a “raincoat”



LIFE DURING THE 7TH PACA

- No natural physical body
- Rely on the fallen spirits of darkness – avatar to robots?
- No sexes
- No races
- Our etheric ‘face’ will reveal our moral intention
- Preparation for the future has already begun

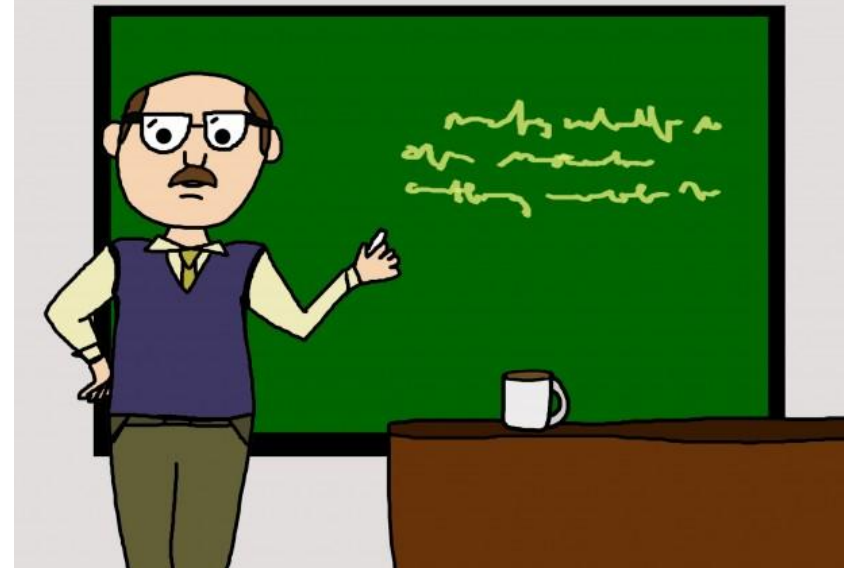
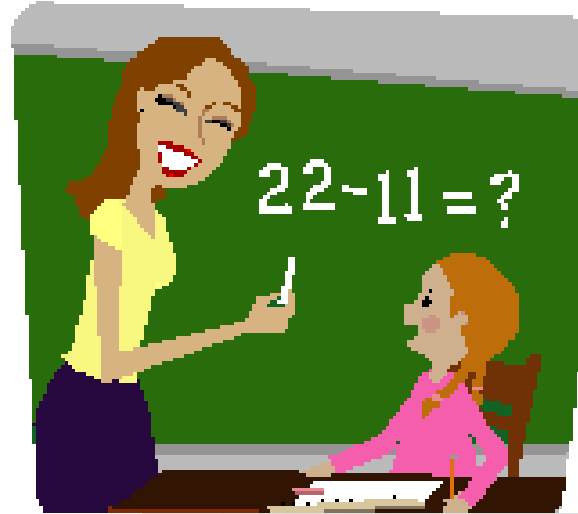
The Jobs of the Future Will Be What Robots *Can't* Do



9,503,525 Views

WHAT TO TEACH FOR JOB SECURITY

- Creativity
- Critical thinking
- Emotional intelligence
- Adaptability
- Collaboration
- New organs of perception
- Guaranteed income?

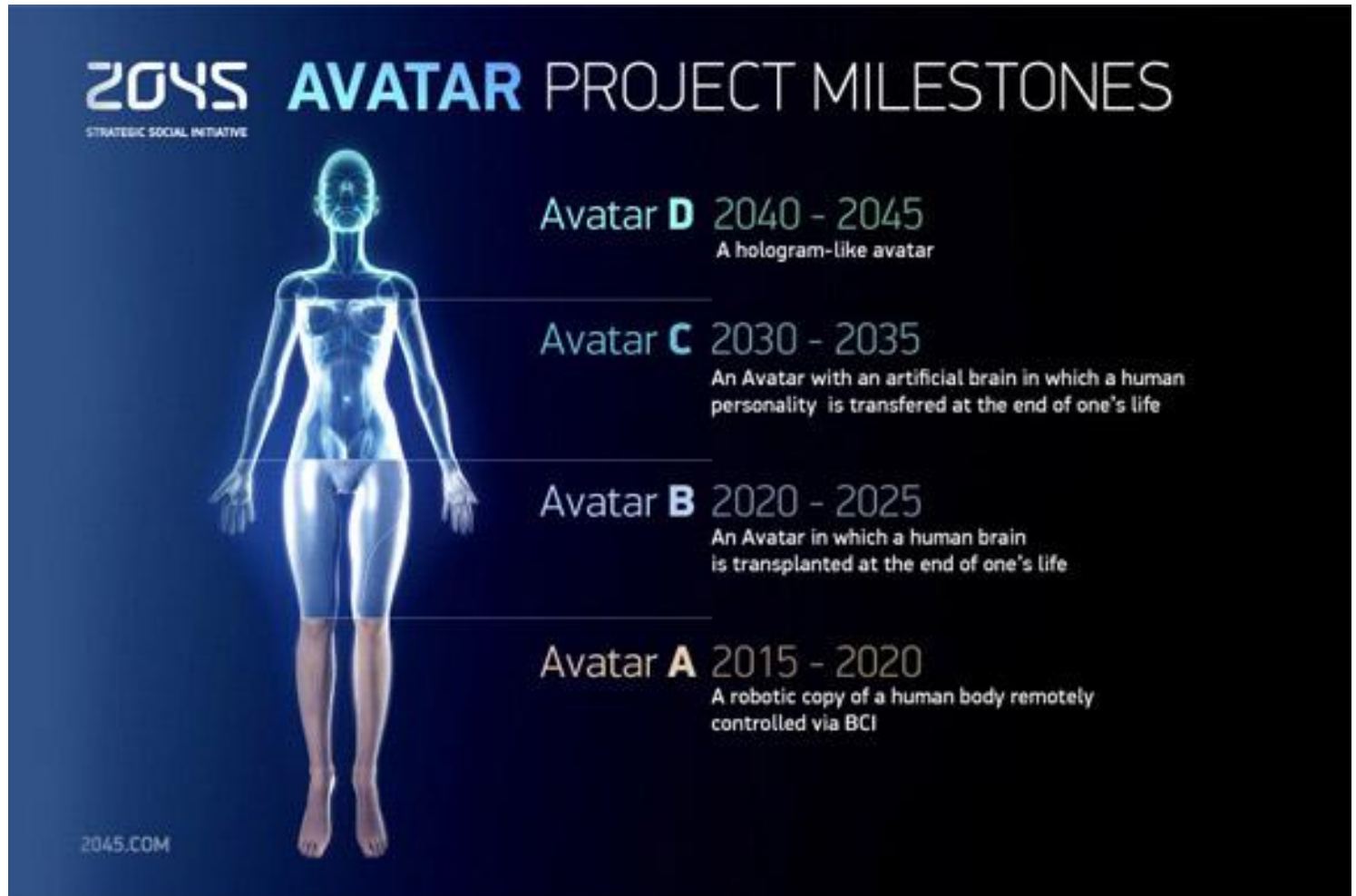




THE SINGULARITY, RAY KURZWEIL ET AL

- Point in time when all the advances in technology, particularly in artificial intelligence (AI), will lead to machines that are smarter than (all) human beings
 - A future of unparalleled human-machine synthesis
- Ray Kurzweil predicts Singularity by [2029](#)
- Dmitri Itskov predicts [2045](#) (supported by Dalai Lama)
- Softbank CEO Masayoshi Son predicts [2047](#)
- Oct 2016, Bryan Johnson announced a \$100 million investment to put computers into human brains
- Elon Musk: **Neural Lace** - grows with your brain
 - Purpose: optimize mental output using brain-computer interface
 - Allows internet access to artificially intelligent systems

WHAT'S AFTER 2045? AFTER 4000?



[Chimeric \(pig + human\) Organisms](#)

[Human Gene Editing](#)



PLUNGING IN: COMPUTER PROGRAMMING

David Black, *The Computer and the Incarnation of Ahriman*

- “I noticed that my **thinking** became more refined and exact, able to carry out extensive logical analyses with facility, but at the same time more superficial and less tolerant of ambiguity or conflicting points of view.
- My **feeling** life gradually detached itself from the rest of me.
 - The feelings that were closer to me grew flat and grey; they lost their strength and color, and correspondingly played a less prominent role in life.
 - The feelings that were farther from me, on the other hand, grew stronger and cruder; they lost much of their human quality and modulation.
- Finally, in the life of the **will**, I developed a tremendous capacity for application to the solution of problems connected with the computer, and ability for sustained intellectual concentration far above average, so long as the focus of concentration was the computer.
 - In other areas, I lost will power, and what I had took on an obsessive character.



MORE ON ROBOTS

- Humanoid in Japan
<https://www.youtube.com/watch?v=oRIwvLubFvg>
- Japanese Hotel Staffed by Robots
<https://www.youtube.com/watch?v=mpzIQ6l4xY>
- Which Robot is Best?
<https://www.youtube.com/watch?v=S5AnWzjHtWA>
- Robots for Lonely People
<https://www.youtube.com/watch?v=dd2tmzL0rpl>
- Futuristic Robots Available Now
<https://www.youtube.com/watch?v=v139i4K5hRA> or
<https://www.youtube.com/watch?v=pISJFBITJec>



THE MORAL QUESTION

“Today's Tech Challenges: AI Machines, Humans, and Moral Dilemmas

Thursday, June 15, 2017 at 11:00am PT / 2:00pm ET

No sooner do machine learning and Artificial Intelligence (AI) enter the more mainstream marketplace than questions begin to arise about whether these technologies are making things better or are they contributing to society's problems?

Attend this session so you can be ready with these answers and arguments as you pitch your project decision-makers. We'll examine:

- How some algorithms, intended to rise above bias in decision-making, actually end up **encoding cultural biases**.
- How we decide whether robots/machines should **replace people** in the workforce
- The state of **ethical and legal standards** for AI development
- Don't forget to check out and register for the other A2 Academy sessions:
- AI and Machine Learning: Real World Use Cases
- Identify AI Opportunities and Technologies for Your Organization
- AI Through the Consumer's Eyes
- How IT Can Help Organization Harness the AI Revolution”
- -- www.nwsltechwebresources.com

[Global Agenda](#)
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Top 9 ethical issues in artificial intelligence



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Ethics and Artificial Intelligence: The Moral Compass of a Machine

The question of robotic ethics is making everyone tense.

BY [KRIS HAMMOND](#) | APR 13, 2016, 2:22PM EDT


[World politics](#)
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Morals and the machine

As robots grow more autonomous, society needs to develop rules to manage them

Jun 2nd 2012

[Technology in Human Evolution](#)

3.1K

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"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."

-- 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*)

SPIRITUAL SCIENCE PERSPECTIVE



CHANGING THE PHYSICAL BODY

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



IMPACT OF MOON'S RETURN



- “The moon once separated from the earth;
the moon will reunite with the earth again”
- “We will still be inhabiting the earth then as human beings
 - *But we shall no longer be born in the ordinary way*
 - **Connected with the earth in a way *other than through birth***
 - We shall have **evolved** in a certain manner by this point
- We must now **learn to connect** what is happening today — the increasing **shadowiness of the intellect** — with what will occur one day in earth evolution as an incisive event, namely, the **moon's whirling back into earth's matter.**”

Materialism and the Task of Anthroposophy, Lecture 14, Dornach, 13May1921, GA204



ENDING OF PHYSICAL BODIES

- “In a time not all that far ahead, possibly as early as the 7th millennium, all women will be infertile on earth
 - Due, in part, to the **withering and crumbling of human bodies**
 - The fact is that women will no longer be able to have children, even before the earth has gone through all its stages
- If the **relationships** that can only come into their own between the **inner life & the physical body** were to continue unchanged, people would ***no longer find anything to do on earth***
 - Human beings therefore have to find a different way of relating to earthly existence – the **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

THIS IS A LONG WAY OFF, RIGHT?

- How many *physical* incarnations left
 - 100s?
 - 1000s? $((6500-2015) / 2160) * 3 = 6 !$
- ‘Growing’ infertility
 - Resulting from chemotherapy, etc.
 - [In-Vitro Gametogenesis](#) (IVG): Creating babies from skin cells
 - Embryo “Farms”
 - Replace sperm banks with skin banks
 - Redefines “having some skin in the game” – fake paternity cases
 - Select best from 100s, 1000s (if rich), destroy the rest
 - Make embryos from multiple “donors”
 - 3-Parent babies now [legal in England](#)





TECHNOLOGY: SPIRITS OF BIRTH & DEATH

- “Until now, the elemental **spirits of birth and death** have been guided by the gods, **influence has been limited** to the coming into being and passing away of humans at the physical level
- But the civilization of our own and future ages **has to be** such that **these spirits can be active in technology**, industry, commerce, and so on
- They will also have to become used to the idea that **progress in civilization will gradually make it *necessary* for us to use the elemental spirits of birth and death**
- And in doing so, humanity will have to live with the fact that a **destructive element becomes part of human evolution**
- The elemental spirits of birth and death are, of course, [now] **messengers of Ahriman**
- The **iron necessity** of world evolution **forces the gods** to use Ahriman's messengers **to control birth and death”**

-- *The Fall of the Spirits of Darkness*, lecture 4



TECHNOLOGY: SPIRITS OF BIRTH & DEATH

- “When they [the gods] ask the elemental spirits to act on their behalf they do not allow the powers of these messengers to enter the physical world
- But as civilization goes into its **decline**, from the 5th PACA 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”
- -- *The Fall of the Spirits of Darkness*, lecture 4



ENDING OF THE EPISODE OF BIRTHING

- “At the **departure** of the moon: physical birth **commenced**
 - The human being began to be born of woman
 - So in the future, the human will no longer be born of woman
 - Only a **passing episode** in the whole of cosmic evolution
- This episode is bringing to man the feeling and consciousness of **freedom**, the **integrated wholeness** of individuality and personality
 - **Episode not to be disdained, necessary in the whole *cosmic process***
 - **But it must not be retained**
- Past: looking up to an abstract divine principle
 - **Now: concretely behold all of evolution**
 - For they can attain a true **inner revitalization** of the whole soul-spirit being only if they comprehend that great period of time — but in its concrete evolutionary configuration — through which they will live in successive earth incarnations”

R. Steiner, *Materialism and the Task of Anthroposophy*, Lecture 14, Dornach, 13May1921, GA204



PROCREATION IN 6TH AND 7TH PACAS

- In the 6th PACA, the human fertility which depends on the powers of light for its impulses will gradually **come to an end**
 - The **powers of darkness will have to intervene** so that the affair **may continue for a time**
- We know the **seeds** for the **6th Post-Atlantean Age** of civilization [PACA] lie in the **East of Europe**
 - The East of Europe will develop powerful tendencies which do not allow physical human reproduction to continue beyond the 6th PACA
 - Let the earth enter into a form of **existence in soul and spirit**
- The other impulses for the **seventh Post-Atlantean Age** of civilization, in which **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

LIFE IN THE 8TH MILLENNIUM

- Infertility will last nearly 2000 years!
 - Problem for > 4000 years; begins now!
 - Larynx procreation comes much later
 - Will all babies be “test tube” babies?
 - Or will we inhabit robots?
- Different War of All Against All
 - Destruction of our avatar/surrogate existence out of egoism
- Our thoughts today become the earth’s new reality
 - What has no reality today will become reality then
 - Because we can think only of the material:
 - **New beings arise** between mineral and plant kingdoms
 - Resemble automatons
 - Over abundant intelligence
 - Connected network like spiders – some want to be one with them



The Automaton Talos, ca 4thC B.C., National Museum, Jatta



PREPARATION FOR MOON'S RETURN

- “But this period of time must be utilized by man in such a way that he does not **prepare the material** which, with the re-entry of the moon into the earth-sphere, would **combine with the moon-substance** to produce that new [spider] kingdom
 - “For their destiny then will be that in hideous shape they will be **caught** up by the **forces of the moon-existence** as it comes down into the sphere of the earth and will **become one with the brood of spidery creatures**”
- To **cultivate Spiritual Science** means to **open the doors** to those **influences from beyond the earth** which have been seeking to come down to the earth since 1880
 - Cultivation of Spiritual Science is in very **truth a cosmic event**
- Now and then there arises in human beings of our time a kind of **foreboding** of what will come about in **the future** [e.g. to artists]
 - Foreboding if men continue to cultivate shadowy thoughts
- Why span of time from **the separation until the return of the moon**
 - **In order that man might become a free being**”

- Source: R. Steiner, *A Picture of Earth-Evolution in the Future*, Dornach, 13May1921, GA204



FROM AN OUTLINE OF OCCULT SCIENCE

- “The **transformations** in the things of the earth existing outside the human being occur with a certain relationship to **humanity's own evolution**.
 - After the **7th cultural age has run its course**, the earth will be visited by a **catastrophe** that may be likened to what occurred between the Atlantean and post-Atlantean ages, and the **transformed** earth conditions after this catastrophe will again evolve in seven time periods.
- Human souls who will then be incarnated will experience, at a higher stage, the union with the higher world experienced by the Atlanteans at a lower stage.
 - Only those human beings, however, in whom are incarnated human souls that have developed in a manner possible **through the influences** of the Greco-Latin PACA and the subsequent 5th, 6th, and 7th PACAs of evolution will be able to ***cope with the newly formed earth conditions***.
- **The inner being of such souls will correspond to what the earth has then become.”**

MID-POINT CHANGING OF THE GUARD

- Spirits of Form led until 15th Century
- Now Spirits of Personality (Archai) begin to ascend to Exusiai level
- They do not intercede but wait for us to rise to them
- Freedom
- Michael
- 1879 on





WILL WE RECEIVE HELP?

- **Now non-human beings are descending** (since 1880) to earth from other planets
 - The Great Teachers of Humanity from the Moon
 - The Vulcan Super-Heroes
 - They depend on entering into human **relationship** to further their own existence – found in one's **inner life**
 - Spiritual Science arises through the help of these beings
- **More and more of such beings** will move among us
 - **We need to understand them**, they will aid us
 - Transform our 'shadowy' intellect to living thinking → Imagination



SUPER-EARTHLY BEINGS TO THE RESCUE

- We read in “[Occult Science](#)” that human souls at one time left the earth for other planets and later returned to earth existence
 - In turn those from Mars, Jupiter and the other planets returned to the earth [during Atlantean times up to 1879]
- The intellect is becoming more and more shadowy
- If man does not resolve to absorb what is to descend from the spiritual world, he will **pass completely over to the shadowy side** of his intellect [and into oneness with those spidery beings]
 - The intellect is now only able to understand **the mineral** kingdom
 - **Plant** life is a deep riddle to it, **animal** life is more so, **human** life is completely opaque
- The formation of **images devoid of reality** will continue unless man resolves to develop **Imagination**
 - If he does this the shadowy pictures will be **re-animated by Spiritual Science**, and become not merely **human events** but **cosmic** as well
 - R. Steiner, *Evolution of Human Freedom and Personal Consciousness*, Dusseldorf, 19Jan1905 (no GA)



SUPER-EARTHLY BEINGS TO THE RESCUE

- Since 1879 **Vulcan beings** descend into earthly evolution
 - They are the first, Super-earthly Beings to bring messages
 - **To them we owe Spiritual Science**
- **The human race does not welcome these Beings**
 - As a whole we ignore them
 - This will bring the Earth into a tragic condition ultimately
- They will continue to descend, but man will **not understand their speech except by understanding Spiritual Science**
 - These Vulcan Beings, from between the Moon and Mercury, are trying to obtain a foothold in earthly existence
- **They seek to be the fore-runners of the end of the earth and the return of the moon**
 - Our shadowy intellect must be re-animated by Spiritual Science
- 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



DRAMA AT THE FOUNDATION MEETING

- “The fortunate one for the progress of the Movement has actually come about. It may now be said that ever since the new Foundation of the Anthroposophical Society at the Goetheanum last Christmas, **those Spiritual Powers from whom our revelations are received have showered upon us even greater grace than before**” (published in “Appendix” in *Cosmic Christianity and the Impulse of Michael*; 1953).



HOW EASY IT IS TO BECOME CONFUSED

- The gods hate the engine Ahriman has made on earth
 - With every engine, with every mechanical device we create a starting point for demonical beings
- Electricity when used has far more demon magic
 - **“Wherever electricity is used, there is demon magic**
 - Demon magic signifies progress – we should not oppose progress”
 - R. Steiner, Karma of Vocation, lecture 9, GA 172
- Electricity has the “peculiar power of leading down *from Nature to Sub Nature*. Only man himself must beware lest he slide downward with it.”
 - Anthroposophical Leading Thoughts, Mar 1925

TODAY'S COMMON VIEW OF TECHNOLOGY

- Technology makes us inhumane
 - Derives from Ahriman
- Anything using electricity is evil
- We have become addicted to technology
- We need to stop technology ASAP to save our world
 - It's worse than climate change





EFFECTS OF CINEMA

- They “are external means for turning people into materialists.”
- Films are “weaving materialism into the perceptual habits of those who are watching.”
- “There is no better means of education for materialism than cinema. ... The pictures do not enter into the usual capacity of perceiving, while the person is sitting before the screen, but into a deeper material layer than we have it, otherwise, in our perception. The person becomes ethereally goggle-eyed ... One works there not only on that what the person has in his consciousness, but he undergoes a materializing effect on his deepest sub-consciousness.”
- – R. Steiner, GA 303, 5Jan1922, answer to question about watching cinema



A TASK OF SPIRITUAL SCIENCE

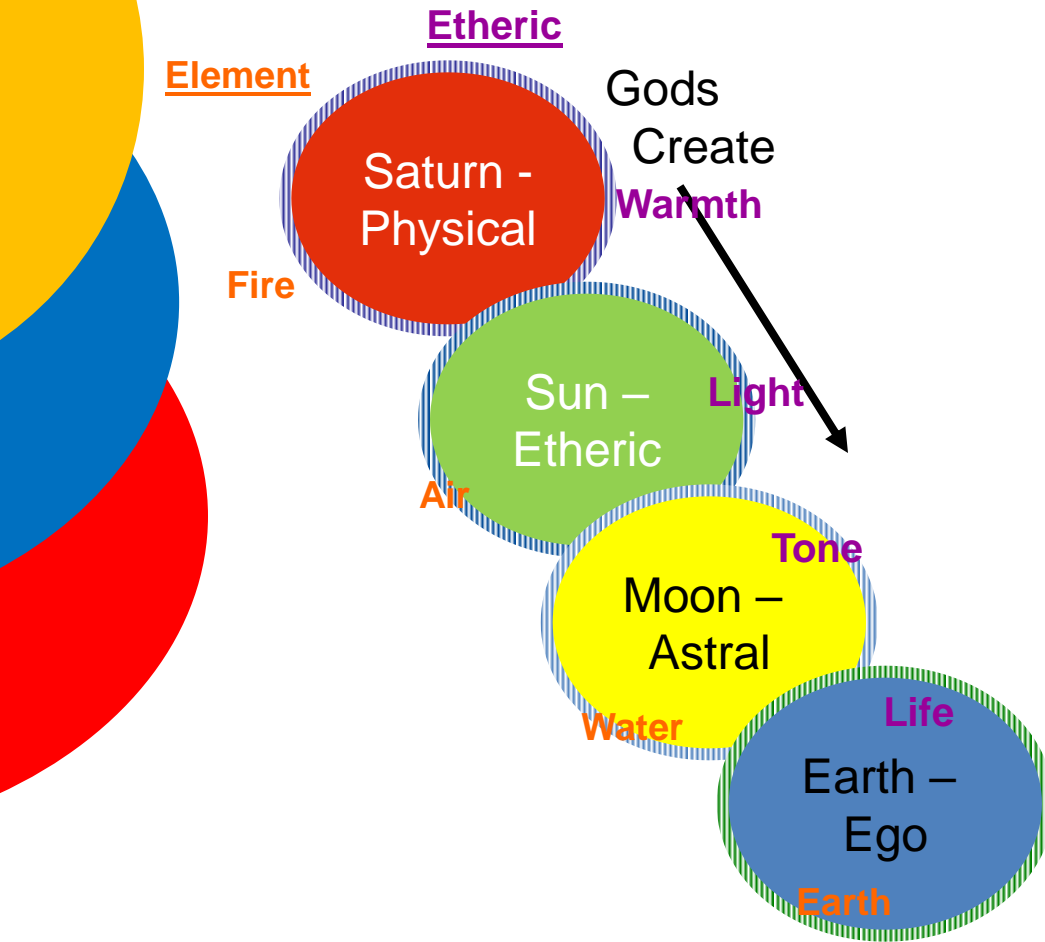
- **“Christianity** must lift Mankind out of his deepest entanglement with matter
 - And it will raise Man out of this entanglement
 - Man's ascent from matter begins again
- **The task of spiritual science** is to help in this ascent into the spiritual world” – *Theosophy and Rosicrucianism*, Lecture 11, *Progressive Development Through the Different Cycles of Culture*, 26Jun1907, Kassel, GA 100
- 6th Epoch: Our lowest member will be our etheric body
 - Will this include the “fallen” ethers?



INITIAL CONCLUSION

- The obstacles in our time become bigger, more capable of presenting an evil path as attractive. One can say "I will not watch a movie or spend time in front of a computer screen because I know it has bad effects on me." This becomes a deep moral dilemma for we should also carry in our hearts the Rosicrucian approach to be there in the world where the world is. If I sink down where the world is (if this is truly the case), will I have the strength afterwards to still rise up? Will I too be lost? Here, I believe, the only answer is Know Thyself.
- It is in these times that one becomes capable of consciousness expansion. Humanity's natural path is down into sub-nature. It must go there. But we all already have the seeds to develop the capacities to rise equally into super-nature.
- This balance will keep us healthy and allow us help others.

PAST PLANETARY CONDITIONS

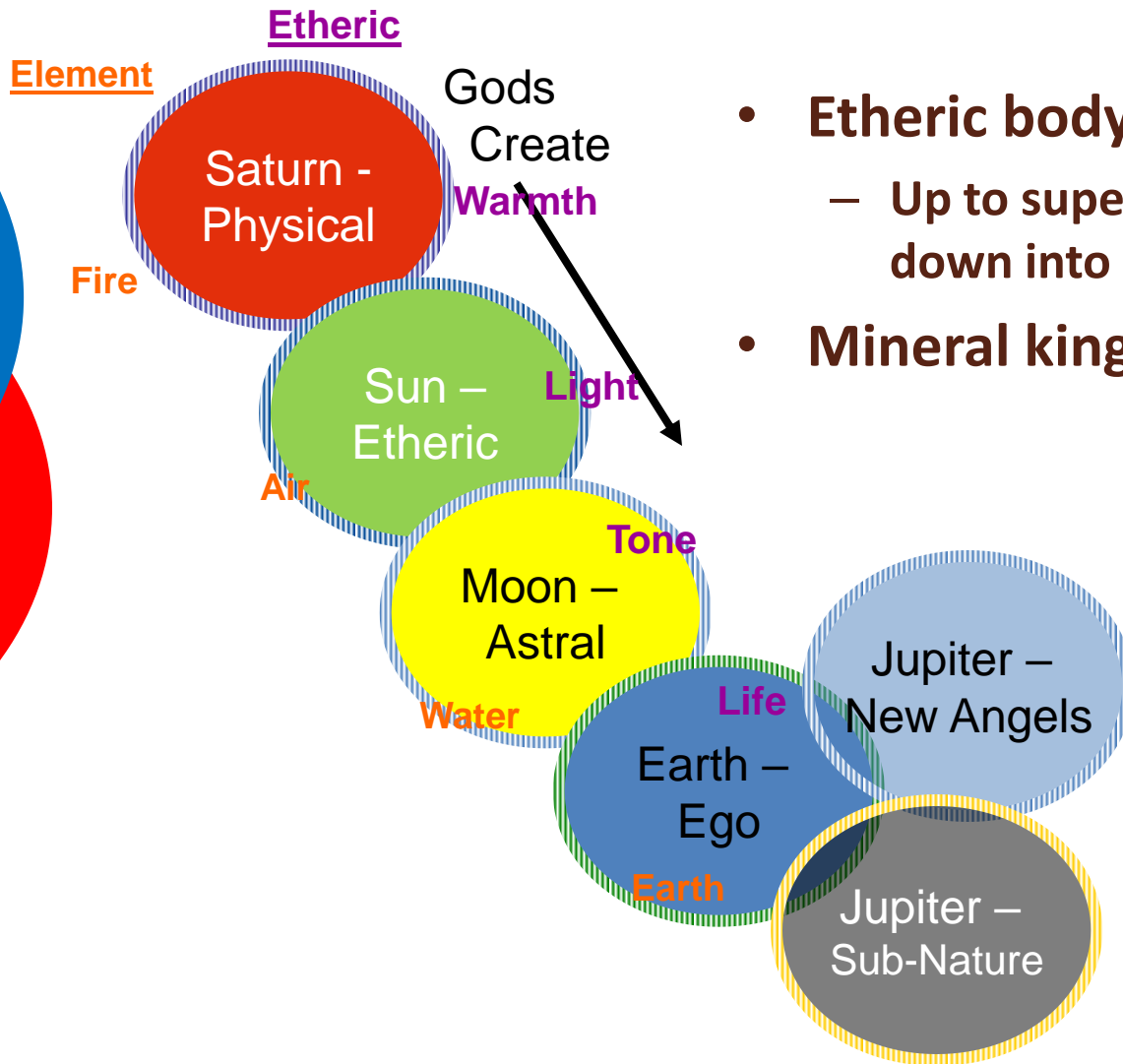




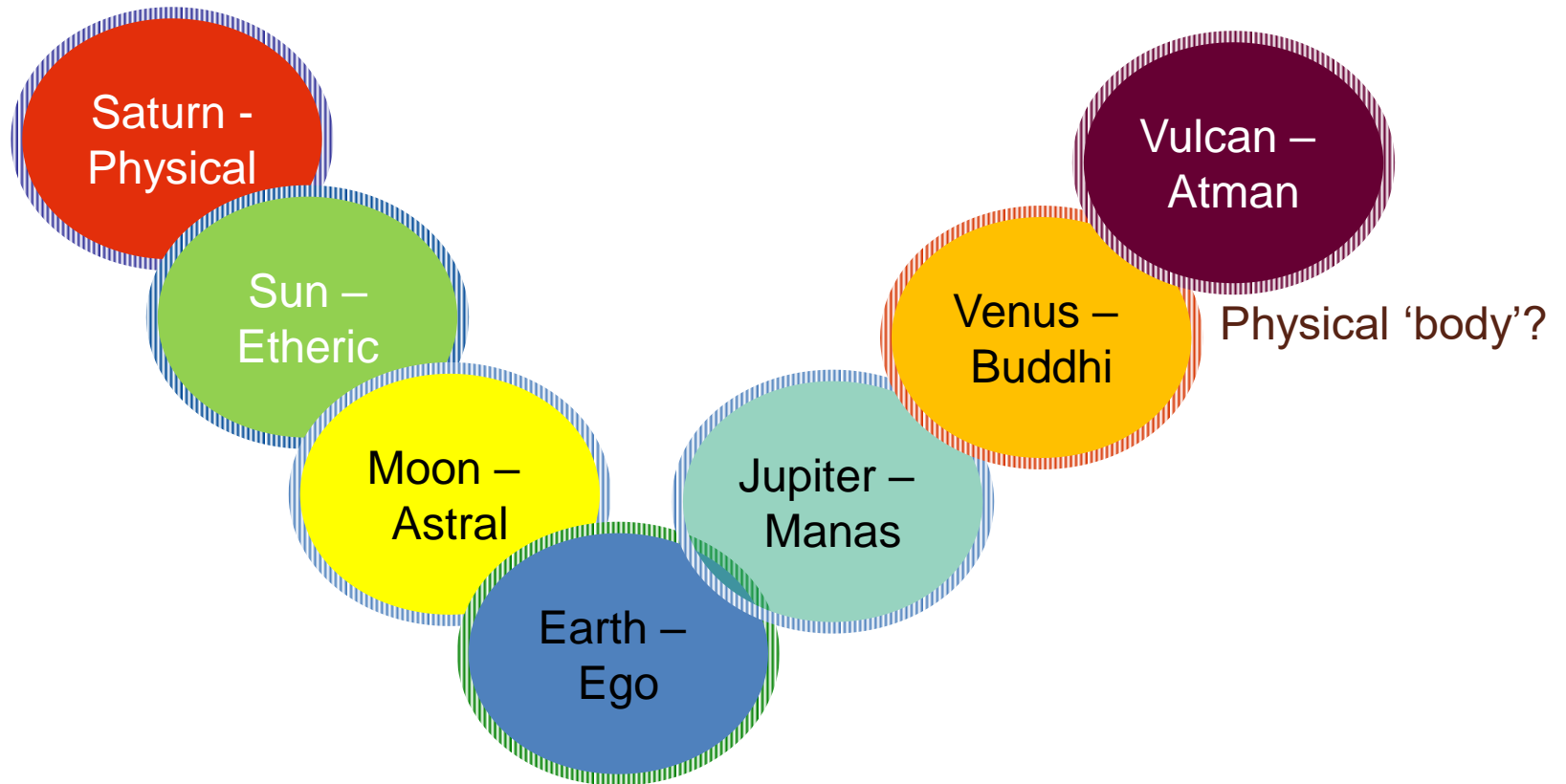
EARTH EVOLUTION

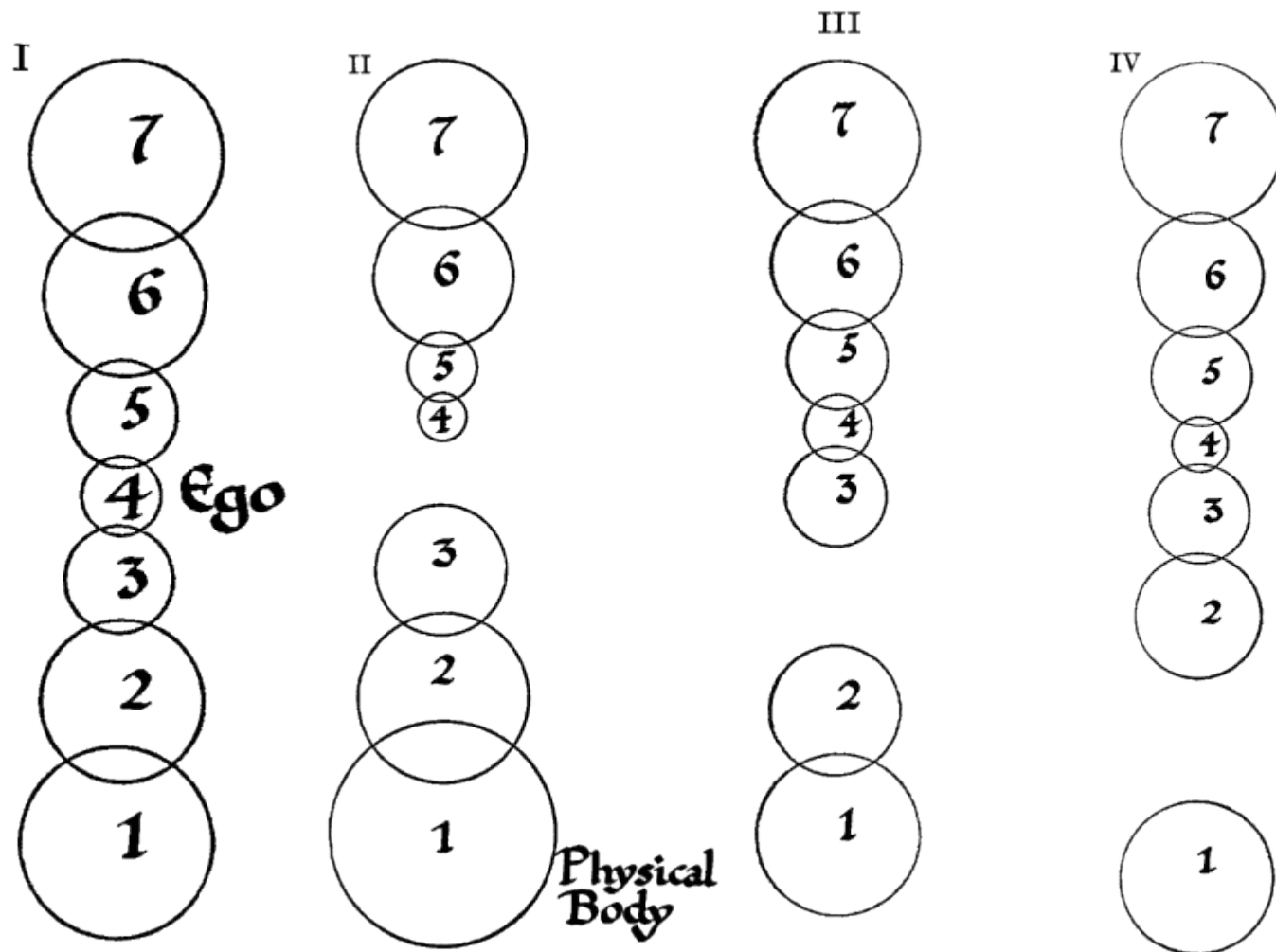
- Mercury is the only metal which has not solidified.
- When this will have happened the soul of man will have become totally independent of the physical body and astral imaginative vision will have become conscious.
- This fact is connected with the forces of Mercury which influence the second part of Earth evolution during which they will densify and finally become solid.
- The Earth is both Mars and Mercury.
- And it is this which Initiates have woven into our language by indicating that the days of the week belong to the planets of our evolution: Mars and Mercury are placed between the Moon and Jupiter.

PREPARING FOR THE NEXT COSMIC STAGE OF THE HUMAN CONDITION



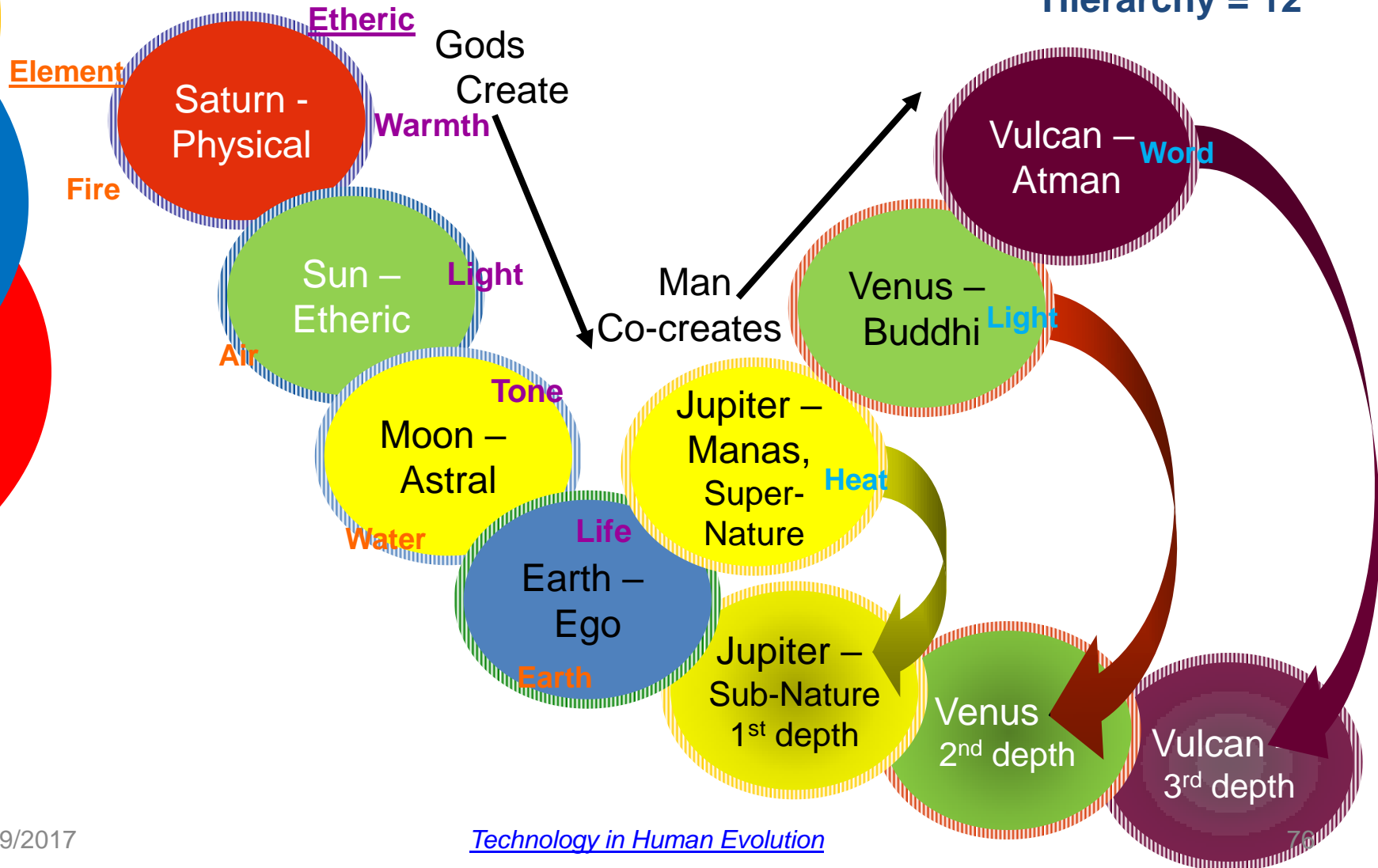
- **Etheric body:**
 - Up to super-nature balanced by down into sub-nature
- **Mineral kingdom dissolves away**






7 STAGES OF HUMAN CONDITION

Hierarchy = 12



- 
- Just as the man of head is connected with the past and is able to come into being because the relation of the Moon to the Earth recapitulates the past evolutions of Saturn, Sun, Moon, so is the limb-man connected with the Earth, but actually with the preparation for the transformations of Earth into Jupiter, Venus, Vulcan. Hence a human being cannot form his head directly on the Earth, for over this the Earth has no power. It is only because he brings with him the forces from before birth, before conception, and is then sheltered within the mother's body from his earthly environment, with the Cosmos working upon him by way of the Moon — only because of all this can the head come into being as a higher metamorphosis of the limb-man of the previous incarnation. The man of the limb-system, arising as he does under the influence of the Earth, cannot come to completion; he can do nothing for the head. During Earth-evolution he is incapable of what he will be able to do during the Venus-evolution. Just as the stag casts his antlers, the human being will then dispense with his head, and out of the rest of himself develop a different one — certainly an enviable lot for the Venus-man! But this is what actually appears to spiritual vision as the future condition of the human being. Things that are part of reality appear grotesque compared with those having earthly limitations, but reality far outstrips what is accessible to our narrow earthly understanding. We must face the fact that our earthly power of observation gives us merely part of reality, and that when we observe only earthly conditions we really know nothing of the human being.
 - because he receives from the spiritual world his tendency to express in spherical form his experiences on Saturn, Sun and Moon, his head on Earth — since it is not of the Earth — is continually giving him over to death
 - R.S., *The Shaping of the Human Form out of Cosmic and Earthly Forces*, Dornach, 26Nov1920, GA 202



REFERENCES, FURTHER STUDY

- Paul Emberson, *From Gondhishapur to Silicon Valley*
- Paul Emberson, *Machines and the Human Spirit*
- David Black, *Computers and the Incarnation of Ahriman*
- Sergio Prokofieff, *The Being of the Internet*
- Nicanor Perlas videos from Moral Tech Conference:
<https://www.youtube.com/.../UCvxzOlhSvaNDppkX1B0Wulw/videos>



REVIEW

- Background: Technology in Evolution
 - Role of the Moon
 - Build our courage through comprehension
- Issues We Face Today
 - The scary part
- Surprising Perspectives from Spiritual Science
- Conclusions



CONCLUSIONS

- Prepare the future according to divine will
 - Technology has a god-willed role in human evolution
 - Other beings get their time
 - Role of the hindrances – evil
 - Being ON TIME, do the right thing AT the right time
 - It is not the What but the How that matters
- Help all to understand the Human Being – how is it different from AI and Robotics?
 - Inner being, moral being, intention, fire
 - Robotics likely necessary for our future
- Learn to see the invisible world – the spiritual-etheric
- Joining with other spiritual beings (e.g. **Vulcan**)
 - Hephaestus (= Vulcan) is the God of Technology & Smiths

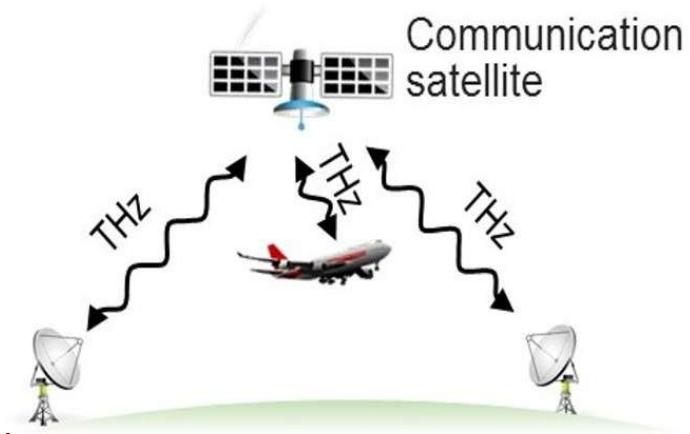


RECOMMENDATIONS

1. **Movement:** Get up twice per hour – get tea, go chat
 - Stand, don't sit for more than 5 hours per day
2. **Eyes:** Place screen near window – look outside often
 - 20-20-20 rule
 - Go everyday, same time, for a long walk, **10K steps/day**
3. Know your home's **EMR** and its sources
 - iPhone [app](#) (Fallen Angel Creations)
4. **Shut down at night** (turn off power esp. WiFi)
 - And at dinner, make it engaging, sacred
5. Cell and cordless phones – keep away, use speaker mode, ECO
6. Smart meters - avoid
7. Fasting (weekly), Habit Changes (monthly), Annual blood tests

'SAFER' WIFI COMING

- Current WiFi: RF at 2.5 or 5 GHz
 - Average connection speed ~18 Mbit/s
 - Goes through walls and bodily tissue
- New light WiFi: Infrared light 200 THz
 - Demo speed 42.8 Gbit/s
 - Line-of-sight, infrared, “harmless”
 - Internet of Things
- Read more at: <https://phys.org/news/2017-03-wi-fi-rays-light100-faster-overloaded.html#jCp>
- New Wireless WiFi: RF at ~300 GHz
 - Demo speed: 105 Gbit/s through walls, satellite to earth
 - More harmful?





MYSTECH: MYSTERIES OF TECHNOLOGY

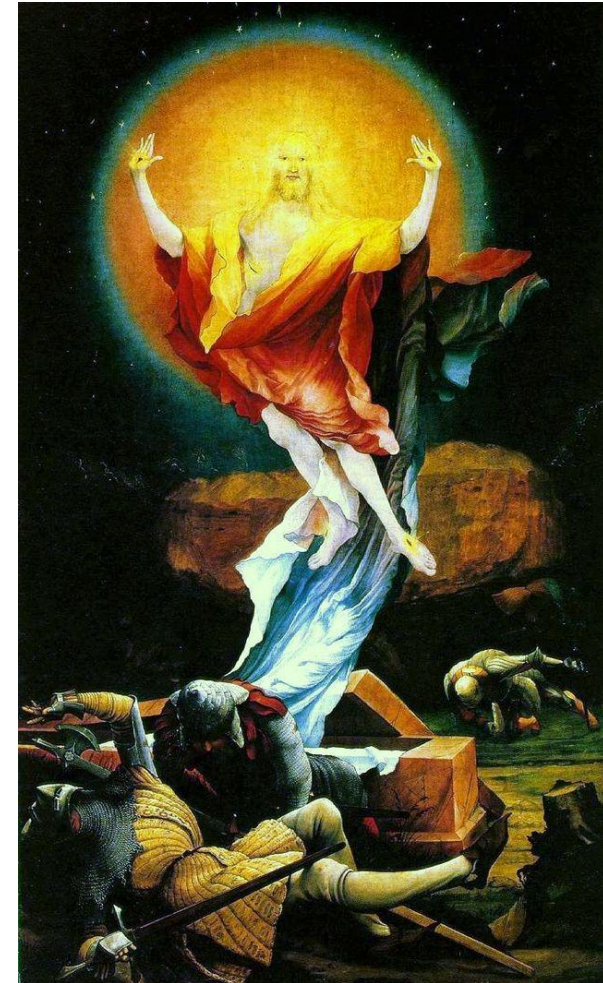
- Currently sponsored by The Center of Anthroposophical Endeavors (CFAE) of Seattle, WA.
 - Started back in 1982 as Friends of Anthroposophy
 - Founded
 - Golden Garden Waldorf School and Seattle Waldorf School
 - Two puppet theaters
 - Hosted hundreds of lectures, workshops, and performances
- MysTech COO, Frank Dauenhauer
 - Graduate of High Mowing, class of 1984
 - First High Mowing class to be introduced to the technology course developed by Andrew Linnell and David Mitchell
 - CFAE board member since 1996
 - Became CFAE Executive Director October of 2016
- Membership to support R&D
 - Moral interface to machines
 - Journal, website, classes

DO I HAVE TO DO THIS? *CAN'T SOMEONE ELSE?* ALIGNING ONE'S WILL

“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*

- “I have come to the frightening conclusion that I am the decisive element. It is my personal approach that creates the climate. It is my daily mood that makes the weather....In all situations, it is my response that decides whether a crisis is escalated or de-escalated, and a person is humanized or is dehumanized” – J. W. von Goethe





THE STARS ONCE SPOKE TO MAN

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

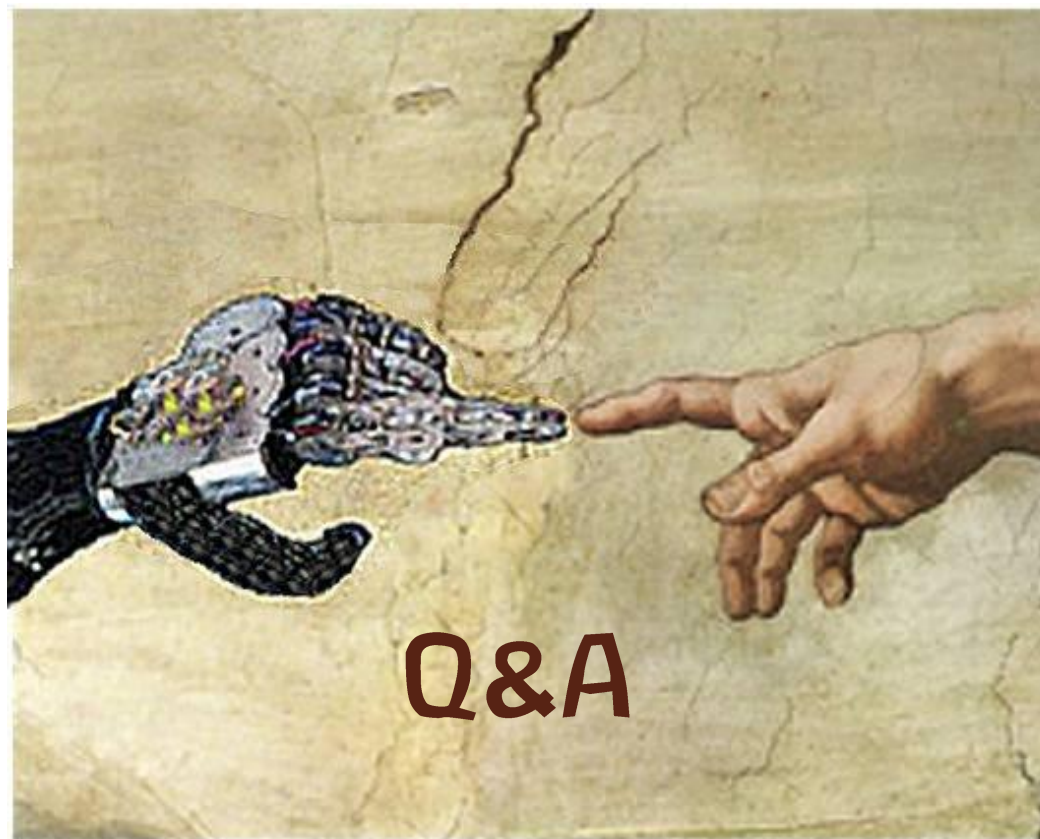
But in the deepening silence
There grows and ripens
What Man speaks to the Stars.
To be aware of the speaking
Can become strength for Spirit-Man.

Rudolf Steiner

spirit

soul

life



“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*



SCHEDULE

www.thechristianmysteries.com

March 24, 2017 Lecture

- 19:00 – 20:30 Technology and the Human Body – The Western Path

March 25, 2017 Workshop

- **08:45-09:00 Registration, social time, tea/coffee**
- 09:00-09:15 Welcome, Introductions
- 09:15-10:30 **Merging Through Rhythms and Ethers**
- 10:30-11:30 The Three Movements with James Knight
- 11:30-12:30 Discussion: Protecting, Countering, Confronting
- 12:30-01:30 Lunch (BYO) together
- 01:30-02:30 **Mythology and Facing the Future Without Fear**
- 02:30-03:00 Eurythmy exercises and tools for balancing technical work
- 03:00-04:00 Structured Discussion: The Challenge of Our Times



DISCUSSION QUESTIONS

- What must we wrest from Ahriman?
 - As the East had to deal with Lucifer, so must the West deal with Ahriman
- What role do the Great Teachers of Humanity, as Moon beings, and the Vulcan beings play in the drama with Ahriman?
 - How do they help to prepare us?
 - Do they work with Lucifer to ‘warm’ technology?
 - Are they at work when we ‘love’ our devices?
 - What role do they have regarding the coming infertility?
- What will our connection to the physical Earth be in a millennium?
 - Will it be through avatars?
 - Will virtual reality be at a level ‘below’ the physical?
 - If without physical bodies, will all humans be here simultaneously?
 - Are those destined to be human on Jupiter to be given robotic bodies?
- Can we see the reunification with the moon as a step towards reunification with the sun (much later)?



HISTORY: SUN AND MOON SEPARATION

- “The beings of the highest rank belonging to our solar system now adopted a new procedure. The most impermeable substances were extracted and separated from the earth; **the severance of the moon** was brought about.
- The result of this was that the forces that had remained behind were no longer frustrated in their evolution. But **it was not until later that this moon became what it is today**. The time had now come when the physical and etheric evolution of man could find the tempo befitting its stage.
- The forces both of the sun and the moon now worked upon the earth from outside, maintaining the balance. Gradually, while the moon was emerging, a kind of softening, an amelioration of the bodies of men, again took place. The period just described is called in occultism the **Lemurian epoch, the epoch of the separation of the moon during the physical embodiment of the earth**.
- The epoch when the sun left the earth is called the **Hyperborean age**
- The epoch when the sun, moon and earth were still united is the **Polarian age**
- During the whole period when the sun was separated from the earth and the moon produced a hardening process on the earth to begin with and then left the earth during the whole of that period, sublime beings were influencing the differentiation. Their most important servants were the Spirits of Form, called the **Exusiai** in Christian esotericism, also Spirits of Revelation, Powers.”



HISTORY: SUN AND MOON SEPARATION

- “On **Saturn** it was the **Thrones**, the Spirits of Will who made the sacrifice of pouring out from their own substance the material for man's physical body.
- On **Old Sun** it was the Dominions or Spirits of Wisdom [**Kyriotetes**] who provided the substance for the etheric body,
- On Old Moon it was the Spirits of Movement or Might [**Dynamis**] who made possible the formation of the astral body.
- On the earth the Spirits of Form or Powers instill the ego, bringing it about that in this phase of evolution the ego enters gradually into what had come into existence, namely, man's physical body, etheric body and astral body. This is the work of the Spirits of Form. In order that an ego-man could come into existence at all as the expression of ego consciousness, and that this coordination of the physical, etheric and astral bodies could take place, everything that has now been described was essential.
- The separation of sun and moon from the earth was necessary; it was also necessary for man to undergo a process of hardening followed by a certain softening. This could take place because the wise beings who guided and directed these happenings undertook it all as probationary measures for the good of evolution. A great deal in the evolutionary process of the earth is still done today by the sublime beings concerned, as probationary measures.”



BRAIN AUGMENTATION

- <https://futurism.com/becoming-immortal-the-future-of-brain-augmentation-and-uploaded-consciousness/>

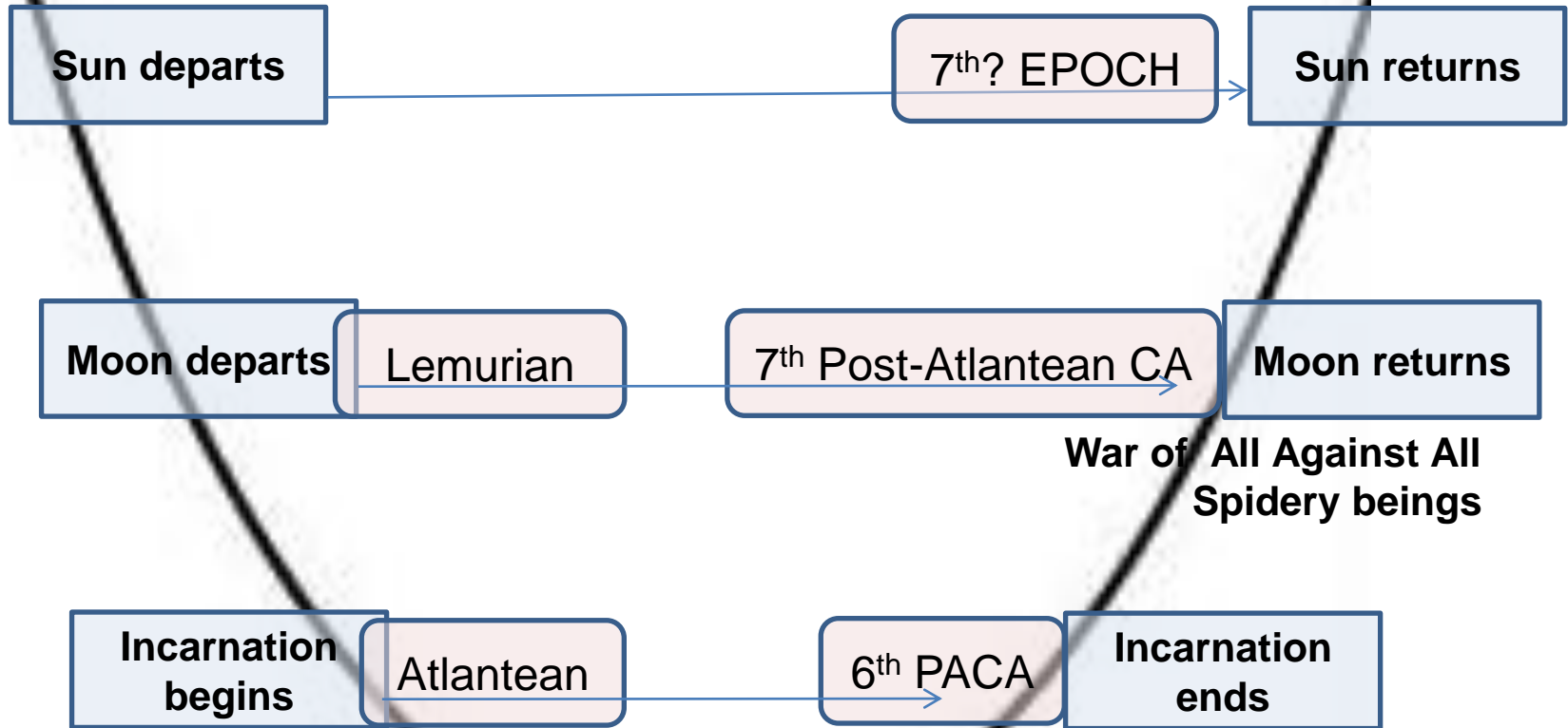


CELL PHONE SAFETY

- 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
- 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

EARTHLY EVOLUTION OF MANKIND

Not to
scale





THE POWER OF THE HUMAN SOUL (*BACK IN OUR TIMES*)

- The automobile and extension of touch sensation
 - This experience will vanish soon – self driving cars
 - What does it mean when one gets a “feel” for their car?
- The telephone and the extension of the soul over space
- Can a machine think?
- Can a machine influence thought?
- Can our soul operate ‘within’ a robot? Avatar?
- What role does our soul have? Emanations?
 - [AI detecting your emotions](#) with wireless signals
 - [AI detecting whether or not you are a criminal](#)

WHERE DO WE FIND ROBOTICS

- Everywhere!
- Wearable
- Prosthetic
- Farming and gardening
- Transportation
- Medical
- Lobbies
- Rescue
- Security/Military





THE DESIRE TO BE SUPER-HUMAN



CHANGING THE 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
- Rudolf Steiner, *Theosophy of the Rosicrucian*, Lecture 13, *The Future of Man*, 5Jun1907, Berlin, GA 99



MORE INFO

- <https://www.facebook.com/nbcnightlynews/videos/10155407466148689/> Girl shows off new prosthetic leg

EMOTION TECHNOLOGY

- Not quite Moral Tech
- Signatures
- Microsoft [Project Oxford](#)
- Apple [Emotient](#)
- MIT [CSAIL](#)

