

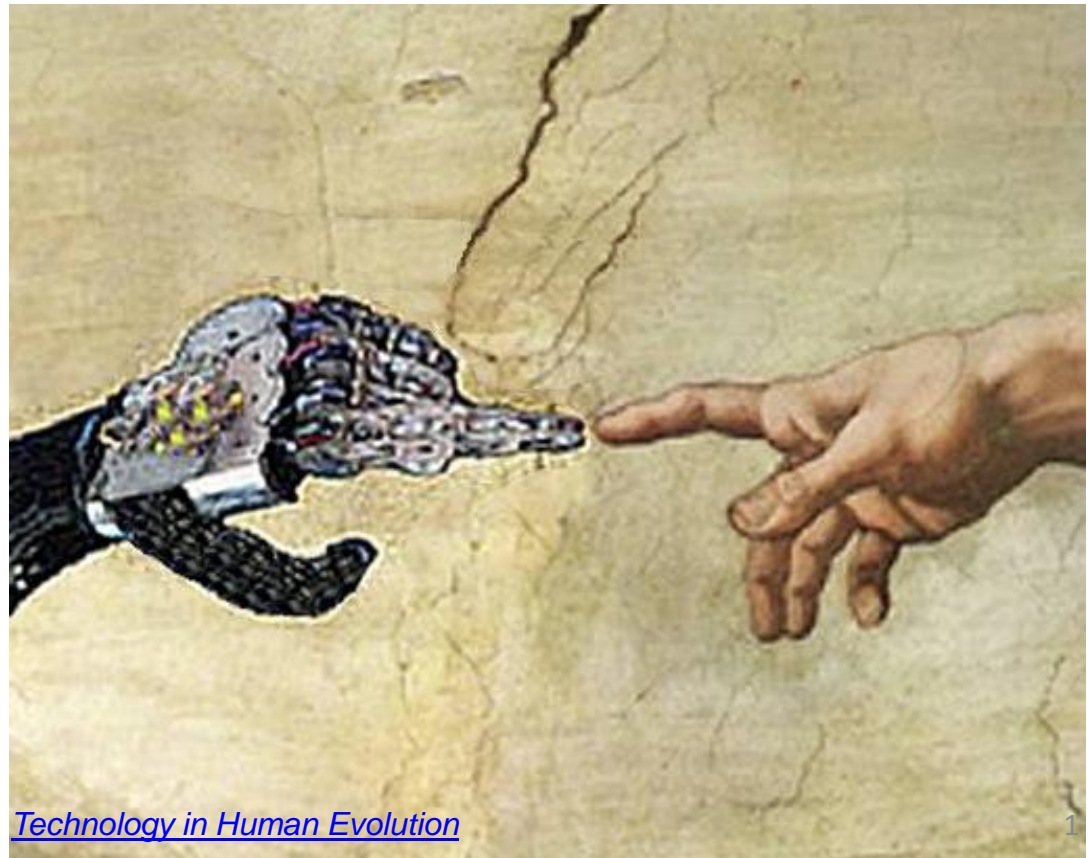


Spiritual Science and the Role of Technology in Evolution

Will Humans Become Supermen? Gods?

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www.thechristianmysteries.org

10/6/2015



[Technology in Human Evolution](#)

What is Your Picture of the Future (2050 →)





No Going Back – Forward Only

- “Man had to **get away from old rhythm**; his progress depends on this
- When certain prophets go around today preaching ‘**Back to Nature**’, they want to bring life into reverse instead of helping it forward
 - All this chatter about returning to nature contains no understanding of real evolution
 - When a movement today recommends people to eat certain foods **only at certain times of the year** because nature herself indicates this by making foods grow only at certain times, this is the abstract talk of an amateur
- The essential thing about evolution is that man grows more and more **independent of outer rhythm**
 - But we must not lose **the ground from under our feet**
 - It is **not the best thing for man's progress and salvation to return to the old rhythm** and ask himself how he should live in harmony with the four quarters of the moon
 - For it was essential in olden times for man to be like an impress of the cosmos, but it is important too that **man should not believe he can live without rhythm**”

R. Steiner, *The Being of Man and His Future Evolution*, Lecture 5, 12Jan1909, GA 107



Questions To Help Understand Our Future

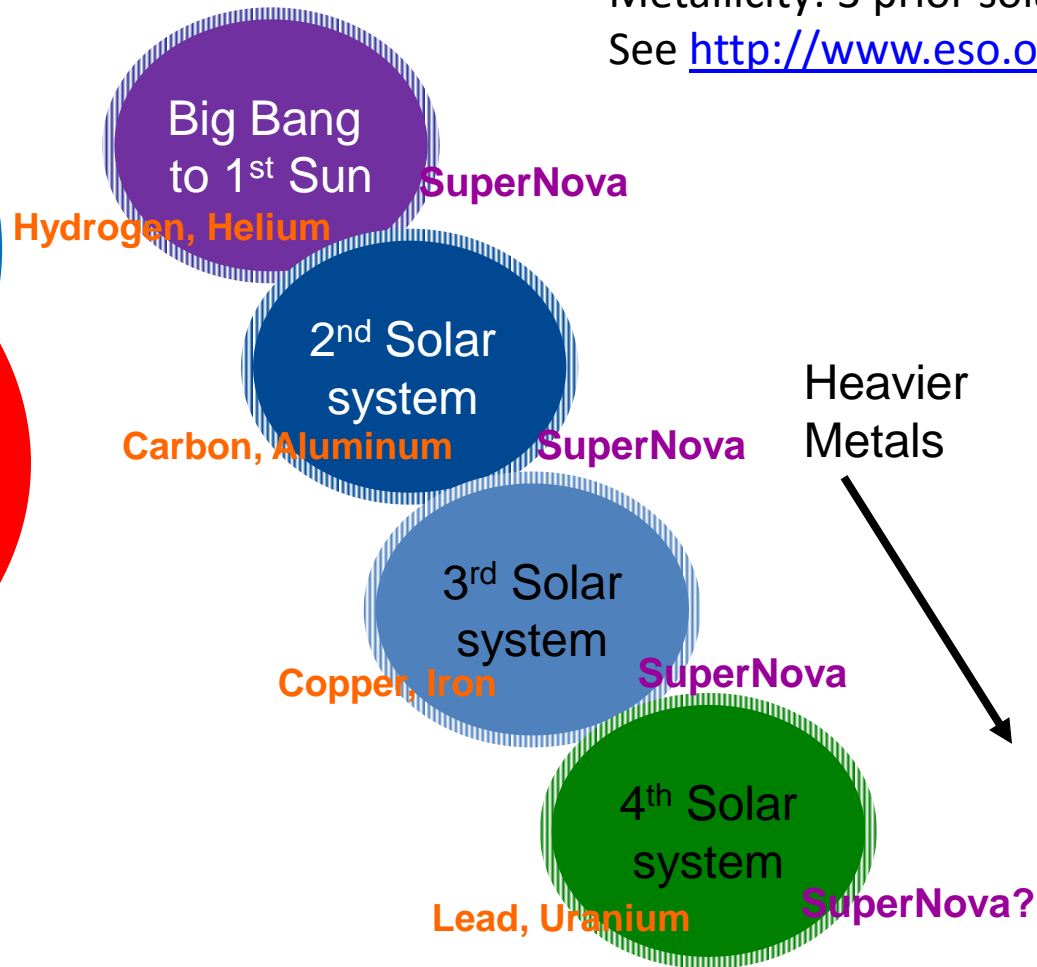
- Who gave us pain and suffering? *Good spirits, counter Lucifer*
- Who gave us karma? *Good spirits, rectify Ahriman*
- What is the point of Earthly gravity? *Upright Freedom*

Goethe: “There is no past that we can bring back by longing for it. There is only an eternally new that builds and creates itself out of the best as the past withdraws.”

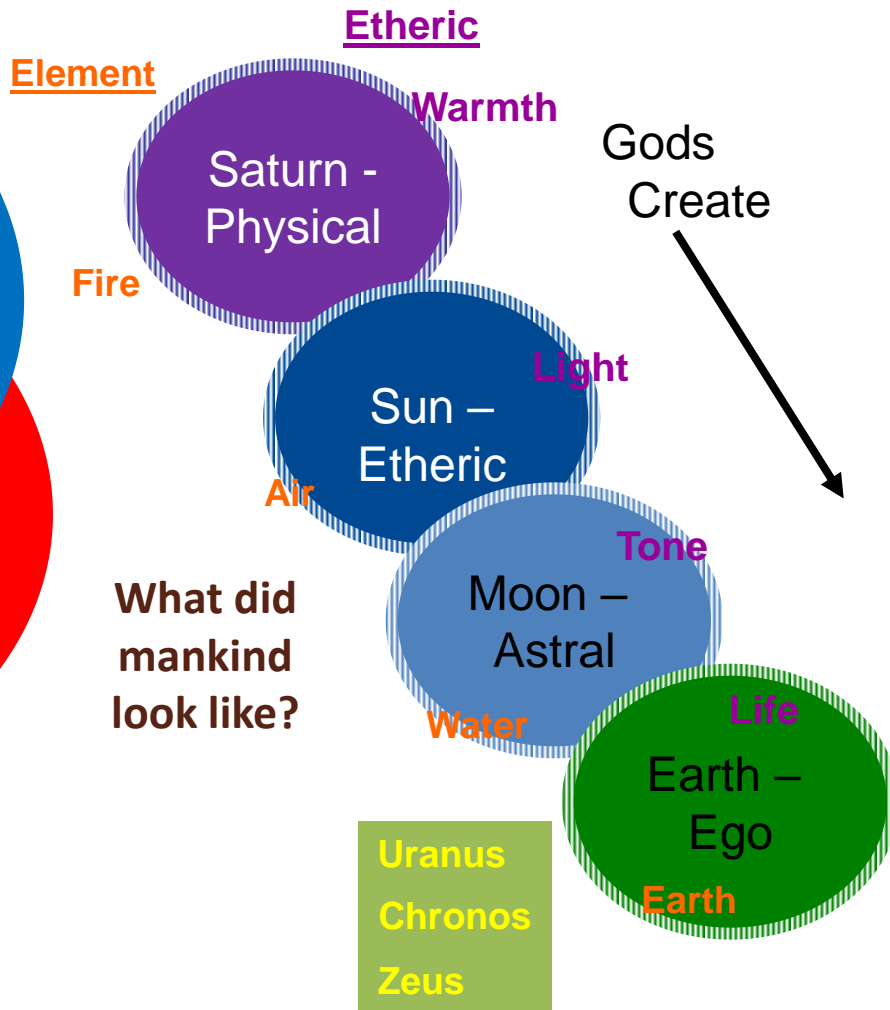
Stellar Evolution & Metallicity

Metallicity: 3 prior solar systems to have heavy metals.

See <http://www.eso.org/public/usa/news/eso0129/>



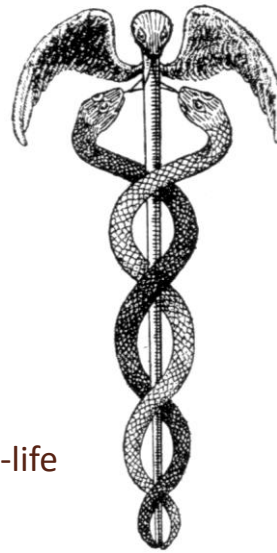
Cosmic Evolution of the Human Condition



1. Lucifer
2. Christ
3. Ahriman

What will
mankind
look like?

Who Are Lucifer and Ahriman?



- **Order** was established between Calculable and Incalculable
- Between birth & death, Man has the Calculable ready-laid for his body
 - Groundwork needed to unfold the free Incalculable of his inner, spiritual soul-life
 - Between death and new birth: exist in the Incalculable, ponder the Calculable
 - Thereby — out of this Calculable — one becomes the architect of their next earth-life
- **Lucifer** can combine with his own form of being **nothing calculable**
 - His ideal: a cosmic unconditioned action of intelligence and will
 - Role: freedom where it should rightly rule events
 - Without his aid, freedom would never make its way into Man's spiritual and soul life
- **Ahriman** stands as complete opposite the divine spirit-beings
 - Ahriman: cold **Hate of everything expanding in freedom**
 - Ahriman's aim and endeavour is to **make the cosmos a machine**
 - His ideals: Measure, Number and Weight
- Michael intervenes: stands in the Incalculable dressing the balance between the Incalculable and the Calculable that he bears within him as a World-thought received from his Gods
 - These Gods are at present purely spiritual beings who bear within themselves perfectly free intelligence and perfectly free will
 - They create, in their free intelligence and will, a wise insight into the necessity of the Calculable
 - They are united in Love and this Love streams from them throughout all the universe
- He who comprehends the world as everywhere Spirit-in-body, he alone really comprehends it

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

Michaelic Age

- Mankind will be tempted into an alliance with Ahrimanic Beings
 - Also elemental beings
 - A further detachment of Cosmic Intelligence from its original source
- Thus Michael battles the Ahrimanic Powers
 - Beneath his feet
 - Constantly driving them down into deeper regions below where Man is pursuing his development
- Michael knows that he will always have Ahriman beneath his feet – but is it the same for Man?





Michael's Task in the Sphere of Ahriman

- Key Point in Time: 20th to 21st Century
 - Intellectual Soul to Consciousness Soul (began 1413)
 - Earlier epochs Man beheld divine spirit-beings as his source for what he was and what he did – Man had no will of his own
 - Man existed as organs of the Divine Spirit-beings
 - Earlier Man felt himself through the Divine Spirit-beings active within him livingly bound to the spiritual world
 - Ahrimanic form of mind had no power here
- Personal **will** arises in our time
 - As thoughts pass over into physical body, they lose their aliveness
 - And dead thoughts release us from the spiritual world to physical
- We are now within the **sphere of the Ahrimanic Mind**
 - Slide into Ahriman's Mind sphere began with Mystery of Golgotha
 - End of a stream of evolution in 15th C → Intelligence-Personality



Finding in Freedom the Right Spiritual Path

- In this Ahrimanic world-stratum, divine influences congenial to Man have died out
 - No other possible way to arrive at the development of free will
 - Even the Sun is changed, only extinct remains are left that carry no life powers in thought that goes into the body
- Christ has united his own living being with deadness
 - Present within the Kingdom of Ahriman!
- Freedom (gift of Lucifer): choose either evolution-path defined by (1) Christ or (2) Ahriman
 - Michael is the time spirit who respects Man's freedom
 - Exerts no influence from his part upon man, only shows his path

The Changing of the Guard

- Spirits of Form led until 15th Century
- Now Spirits of Personality begin to ascend to Exusiai level
- They do not intercede but wait for us to rise to them
- Michael?

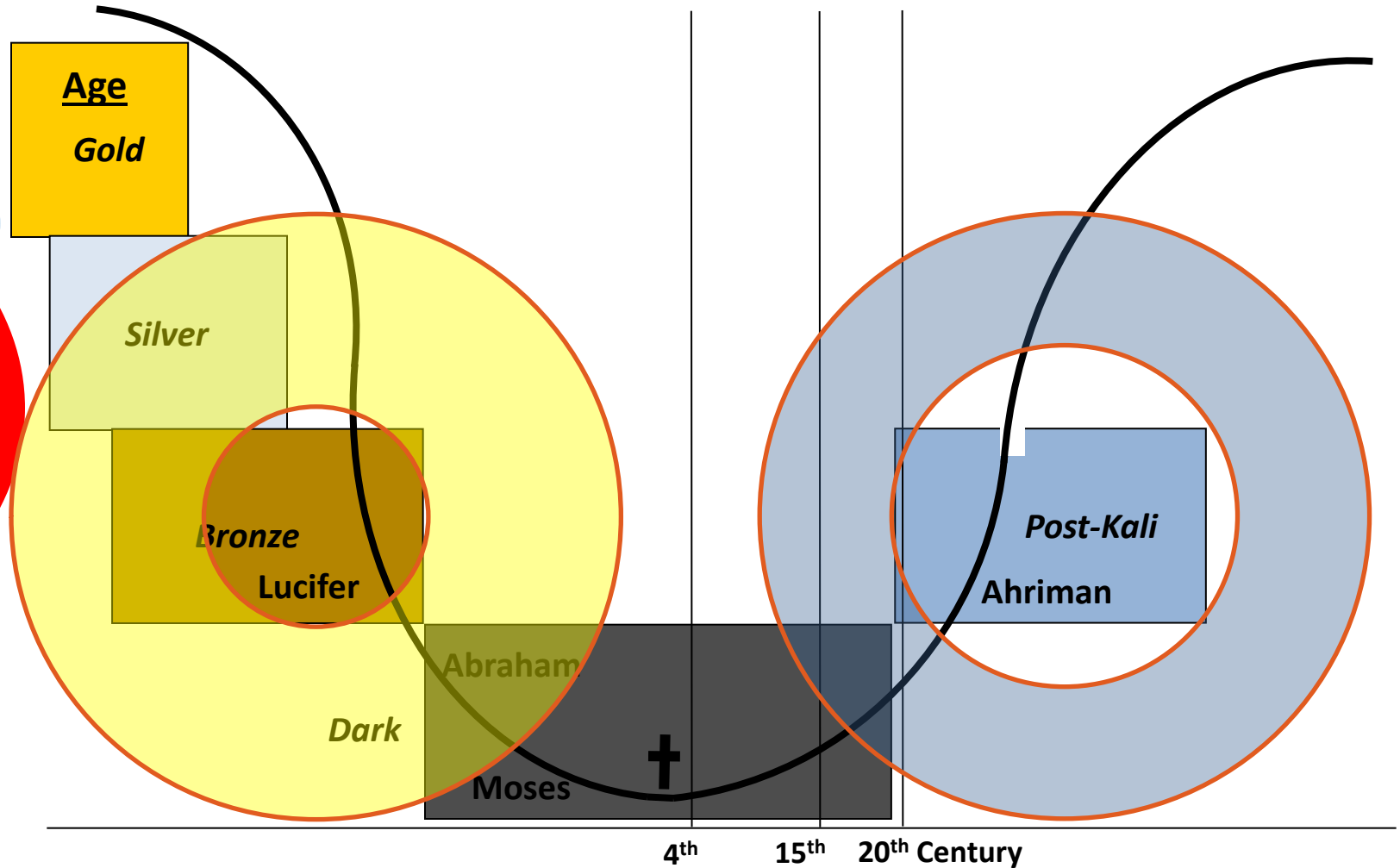




Fulfillment of Michael's Cosmic Mission

- Michael arranges the doings of the Gods, so that Man continues to exist in a “cosmic corner”
 - Archai are focused on moving on to Exusiai, Michael becoming Archai
- Michael administers the Intellectuality of the Cosmos
 - He desires the force which works as Intelligence throughout the Cosmos should become concentrated in the individuality of Man
 - To keep Intelligence, now growing up in mankind, in continuous connection with the Divine Spiritual Beings
 - Cosmos now lives by its **past** Intelligence as it descends to man
- Ahrimanic beings are pre-disposed to absorb intelligence
 - Especially that which is detached from the Gods
 - They grow to be the greatest, most comprehensive and most penetrating Intelligences in the whole Cosmos
- Mankind **MUST** come into contact with these Ahrimanic beings

Post Atlantean Historical Picture





Incarnation of Lucifer

- Imagine you lived in China ~3000 BCE
 - The incarnation of Lucifer is imminent, you know it is coming
 - How do you approach this?
- Lucifer, the light bearer, the Spirit of Venus
 - *Man in the Light of Occultism, Theosophy and Philosophy*, GA137, Christiania, 12th June, 1912
 - Venus as the star of those unfinished from Old Moon
 - On Old Sun, Christ and Lucifer were 'brothers'
- Now, how do we prepare for Ahriman's incarnation?

Seven Epochs of the Physical Realm

1. Polarian
2. Hyperborean
3. Lemurian
4. Atlantean
5. Post-Atlantean

1. Indian
2. Persian
3. Egyptian
4. Greek/Roman

5. 5th
6. 6th Russian
7. 7th American

6. Sixth Epoch
7. Seventh Epoch

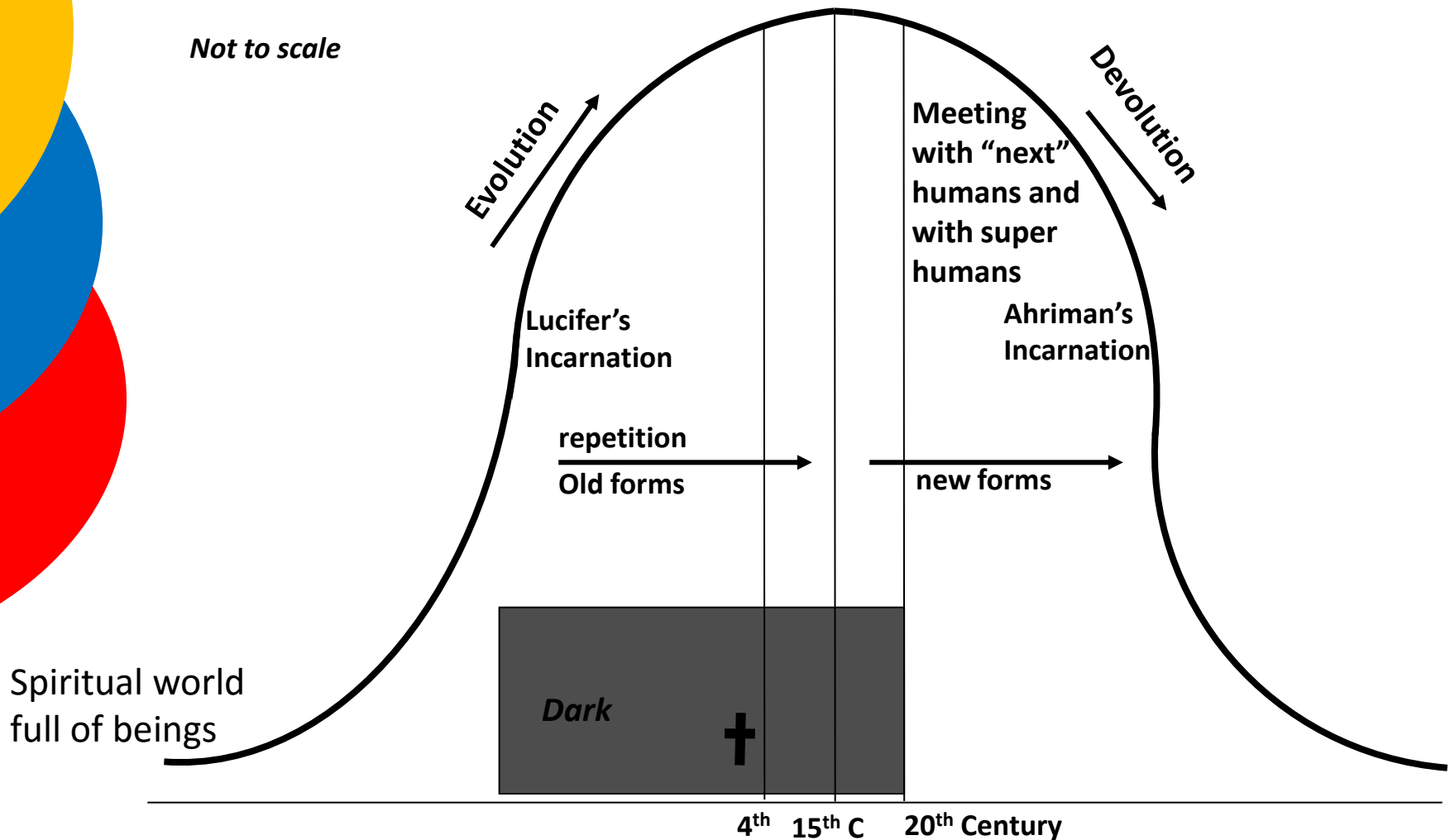
← What did we look like here?

← You are here

← What will we look like here?



Post Atlantean Historical Picture



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 the middle of the Atlantean age, or until ancient **Greek times** when, **human bodies were as perfect** as they can be during time spent on earth
 - Not until Jupiter will humans achieve a higher level of physical perfection
- 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** to the same extent as it did in the past
 - The Exusiai are moving on ...
- Consequence of this will be **all kinds of changes in development”**

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

Dealing with Our Double

- Shortly before we are born **another being indwells us**; in the terminology we use today we would call this an ahrimanic being. It is just as much in us as is our own soul. [page 56, 57] (*this is our **Ahrimanic Double***)
- How will we learn to **convert evil into good**? We will need a lot of help, and that help will come from an ever-present source of spiritual power that we have at our disposal: **we have only to ask for it!** [pg. 163]
- But something even more significant will occur for the development of the fifth post-Atlantean period when human souls recognize that **in Christ they have the I helper they need** to transform the forces of evil into good. [pg. 165]

Note: no discussion of fairness!





Attachment of a Second Being

- “Let us be quite candid about the trend of evolution.
- “A different form of experience will come to the man of modern times. In his own opinion he knows everything 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 now and in times to come.**
- “The Ahrimanic nature is strengthened by all the prejudices and limitations of materialism, and **a future can already be perceived when everyone will be born with a second being by his side, a being who whispers to him of the foolishness of those who speak of the reality of the spiritual world.**
- Accompanied by this second being, he will feel the **urge** to think materialistic thoughts, **to think, not through his own being, but through the second being who is his companion.**”
- Rudolf Steiner, *The Balance in the World and Man, Lucifer and Ahriman*, lecture 1, GA158

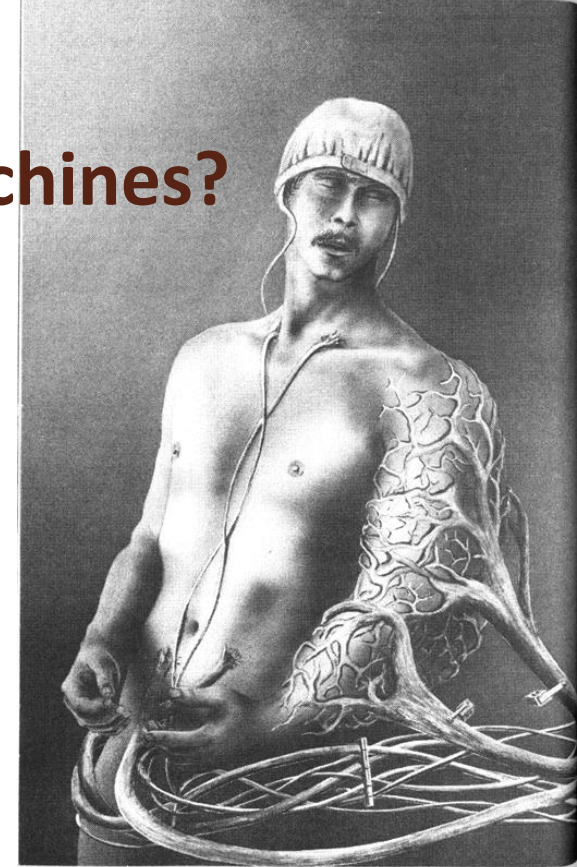


Steiner on Facing Human-Mechanical

- “The will is there **to harness human energy to mechanical energy**
 - These things should not be treated by fighting against them – that is a completely false view
 - These will not fail to appear; they will come
 - What we are concerned with is whether, in the course of world history, they are entrusted to people who are familiar in a selfless way with the great aims of earthly evolution and who structure these things for the health of human being or whether they are enacted by groups of human beings who exploit these things in an egotistical or in a group-egotistical sense
- It is not a question of **what**; the what is sure to come; it is a question of the **how**, how one tackles these situations”
- Rudolf Steiner, *The Reappearance of Christ in the Etheric*, lecture 12

How Will We Be Attached to Machines?

- Rhythms – Sympathetic Vibratory Physics?
 - 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
 - Keely Machine – Sympathetic vibrations
 - Stader Machine
- Not the **What** but the **How**



Waldorf School Robotics

Huh? – Waldorf School Robotics?

Congratulate the PolyGnomes!

- Green Meadow's robotics team
 - Coaches: James Madsen & Lisa Krogh
- Results:
 1. Won 50 of 58 matches
 2. Hold several tournament scoring records
 3. Won all qualifying tournament championships
 4. Finalists in regional championships
 5. Received two prestigious judged prizes:
 - PTC Robot Design Award
 - Rockwell Collins Innovate Award
 6. #2 at Eastern Super Regional in Scranton, PA
 - Against 72 best teams on the east coast, from Virginia to Maine
 - Beat elite schools specializing in STEM and teams heavily supported by technology companies
 7. #5 at World Championship in Saint Louis, MO April 22-25
 - Top 2% of teams in the country, plus 30 international teams
 - 4500 teams from around the world
- ***This is what is needed for the mankind's evolution***



It's Not the What but the How

- K-8 Waldorf Schools “reject” TV and Computers
 - Does this mean Anthroposophists = Luddites?
 - How about above grade 8?
- John Davy’s question about vocation
- What does it mean to be a modern day Rosicrucian?
- Who will make the decisions regarding **the how**? Materialists?



History in the Anthroposophical Bathtub





Ending of Physical Bodies

- “In a time not all that far ahead, possibly as early as the seventh 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”
- AL: Thus, the relationship between the inner life & the physical body must change, must find new *rhythm*-connection

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



No Worries – This is a Long Way Off, Right?

- How many more incarnations left (*to resolve my karma*)?
 - 100s?
 - 1000s? $((6400-2015) / 2160) * 3 = 6 !$
- **Now non-human beings are descending** (since 1880) to earth from other planets
 - For example: the Great Teachers of Humanity from the Moon
 - 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



Procreation in 6th and 7th PA Ages

- In the sixth Post-Atlantean Age of civilization, 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 **sixth Post-Atlantean Age** of civilization 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 sixth period of civilization but, instead, 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

What Will Life Be Like in the 8th Millenium?

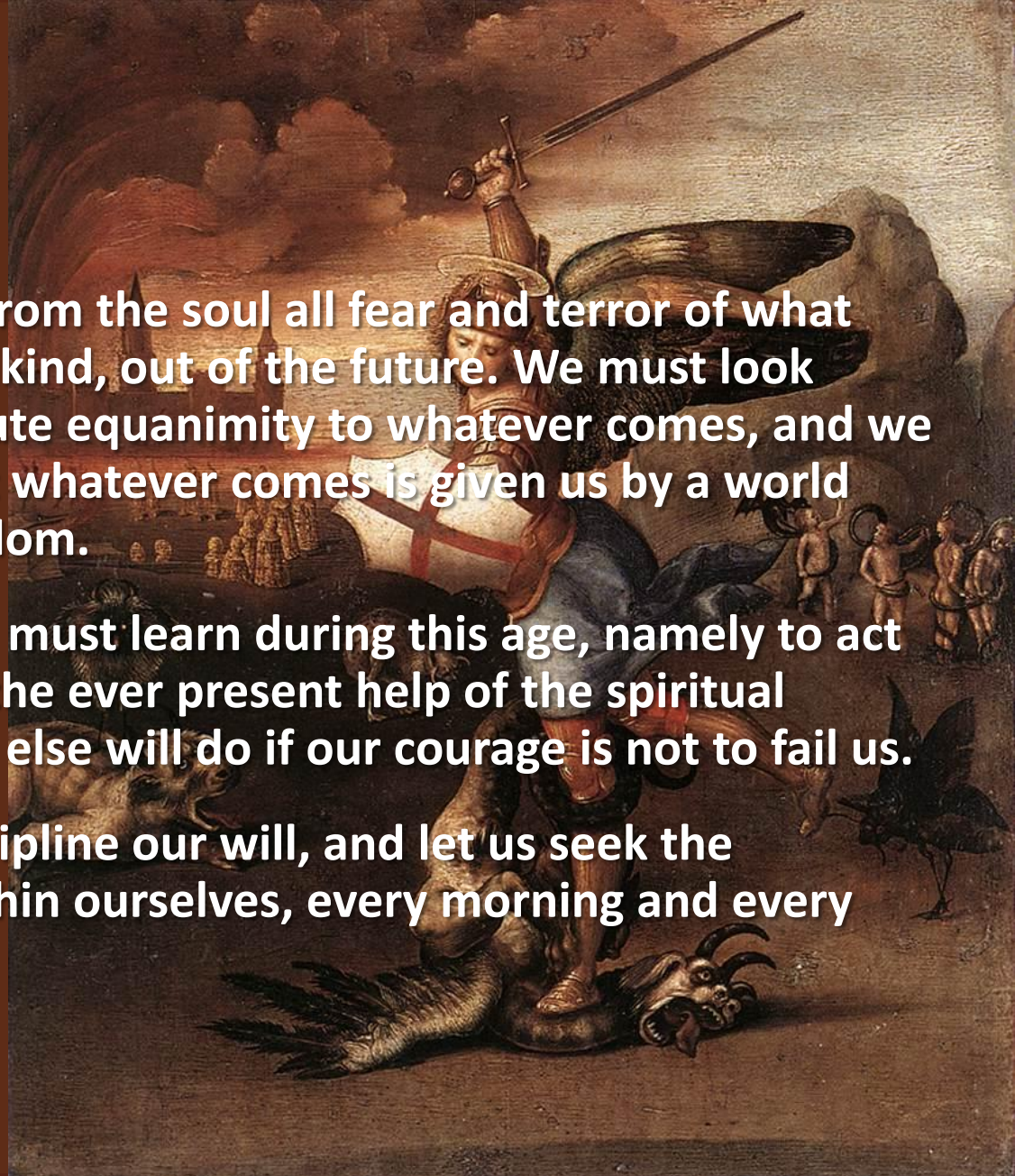
- Women will already be infertile
 - Without procreation, will today's physical body cease to exist?
 - Or will all babies be “test tube” babies?
- Moon will recombine with Earth
 - Forces and beings
- Our thoughts today become the earth's new reality
 - What has no reality today will become reality then
 - Because we can think only of the material:
 - **New beings** between mineral and plant kingdoms
 - Resemble automatons
 - Over abundant intelligence
 - Connected network like spiders



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





WHAT ABOUT THE SOUL?

Review: Our “Three” Souls

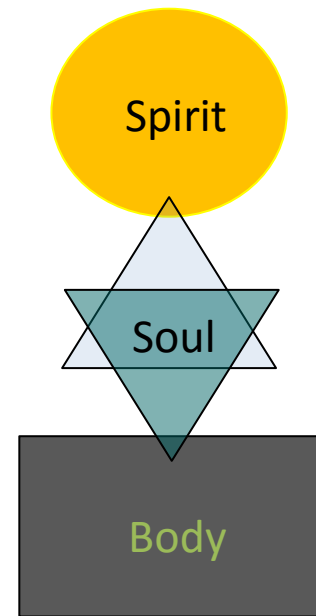
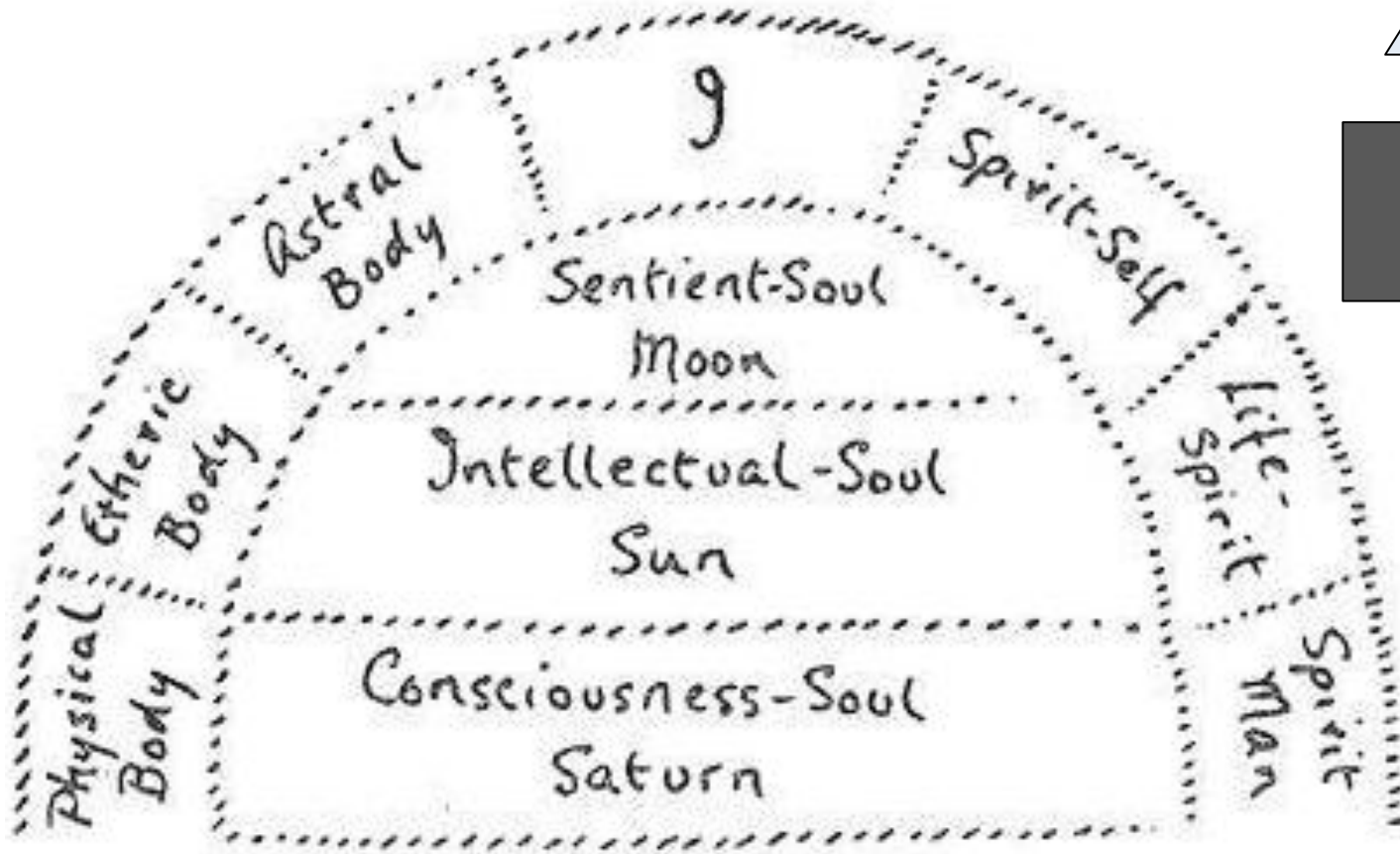
- If we look into what is rightly called man's inner being, we come first to the ‘darkest depths’ of the soul, where the soul is still subject to emotions of fear, terror, anxiety and hope, and to the whole gamut of pleasure and pain, joy and sorrow. We called this part of the soul the **sentient soul**.
- We went on to distinguish in these dark foundations of soul experience what we call the intellectual soul, which is achieved when the ego assimilates external impressions and quietly allows that which emerges in the sentient soul to live itself out and find equilibrium. Inner truth, as we may call it, arises in the **intellectual soul**.
- When the ego then works further on what it has gained on its way to the intellectual soul, it raises itself to the **consciousness soul**, where for the first time a **clear knowledge of the ego** is possible, and where man is led out from inner life to a real knowledge of the world.
- *R. Steiner, Metamorphosis of the Soul, What is Mysticism?, 10Feb1910, GA59*



Does
tech
help or
hinder?

Body – Soul – Spirit Diagrams

Apocalypse of St. John, lecture 9



Oriphiel, Arch-Angel of Saturn, with the Wrath of God, follows Michael



Today's Mission: The Consciousness Soul

- Begins with Ego at home in the intellectual soul
 - Must shut itself off from sensory inputs (closed windows)
 - What happens to development of fraternity?
 - Social media facilitates a voiceless social life (text/photo record)
- Becomes “the soul within the soul”
 - Distinct from the intellectual soul
 - IS remains entangled in sensations, impulses, and passions
- CS finds a *permanent truth* that has freed itself from all flavors of sympathy and antipathy of feeling
 - The truth is true even if all personal feelings revolt against it
 - (this may even be true for you of this talk's content)
- That part of the soul in which this truth lives is the consciousness soul. – Steiner, *Theosophy*, The Essential Nature of Man, Body, Soul and Spirit

From Rationalism to Relationalism

+ el

Carmine Gorga

- Development of the Consciousness Soul in our times

Our Powerful Soul

- Telephone
 - Facetime/Skype
 - Virtual Reality
-
- Overcome spatial dimensions





Overcoming the Cold Consciousness Soul

A true Science will **behold** in Christ the primal and eternal **Logos**

He works for the evolution of the Spirit-Being of Man

To turn the human heart in **Love** towards these great **cosmic connections**, it
fires with its warmth the Consciousness Soul's cold element of Light

Such is the stream of Cain to understand and use such fire, enthusiasm

Were the Consciousness Soul condemned to remain unwarmed by such fire,
Man could never attain to its transformation in the Spirit

He would either *perish in the cold of intellectual consciousness*, or would be
condemned to *remain in a form of spiritual life which never progresses to the*
evolution of the Spiritual Soul

He would then stop short with the evolution of the Intellectual or Mind-Soul

But the Consciousness Soul is not, of its own being, cold

It only appears so at the beginning of its evolution; because at **the beginning it can**
only display the Light-element that is in it, and not as yet the World-Warmth,
from which it nevertheless proceeds

The deliverance of Man is accomplished **in the fields of Earth** from those
powers who would draw him away from his source and origin

-- *Michael Mystery*, lecture 14



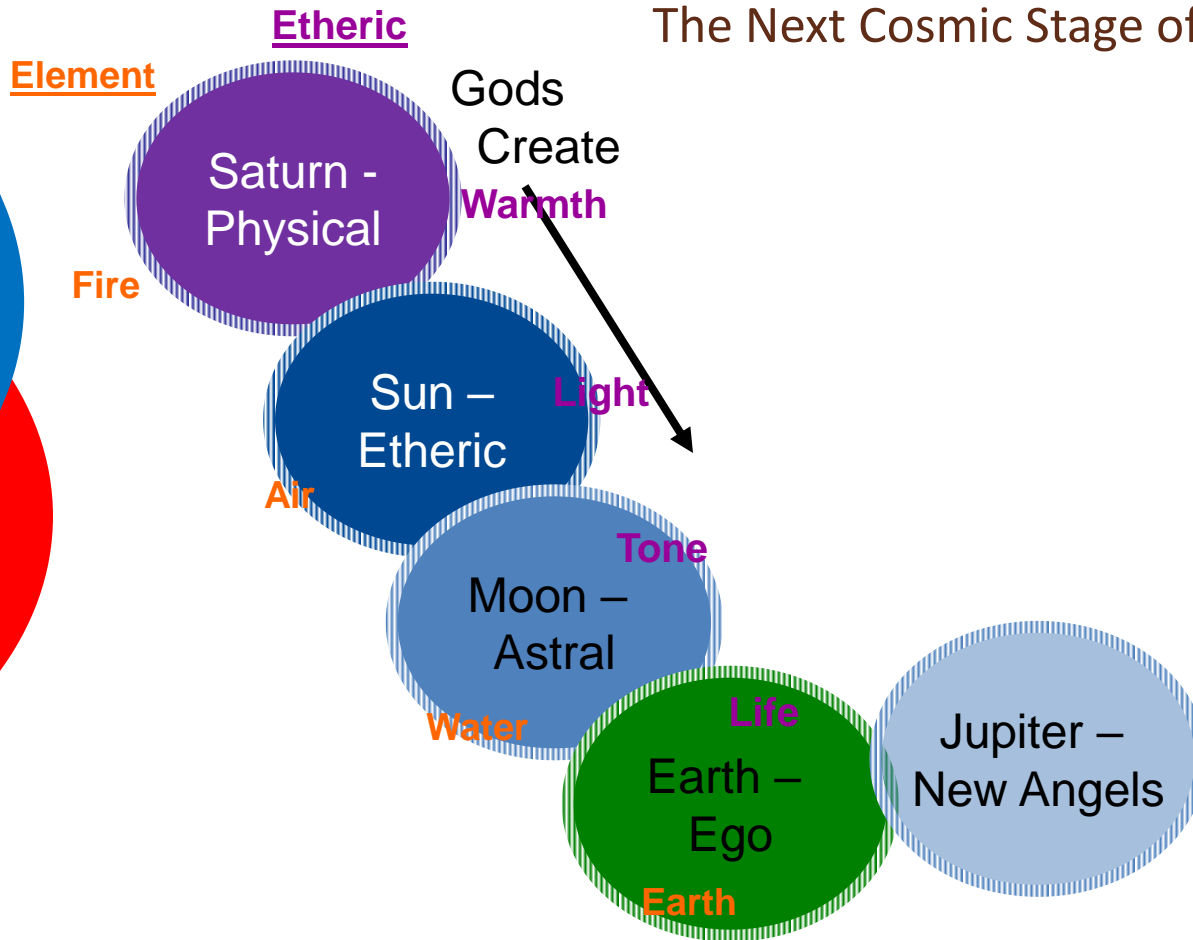
Body and Soul Today

- “Bodies are walking around, and the soul is not entirely inside them – why?
 - Because it is no longer the soul's task to enter fully into the body, which is beginning to crumble away; instead **the soul's task is to prepare for what will happen on Jupiter**
 - Our souls are even now making preparations for this future ...
- We have the task of using all our **powers of insight** and all our **inner strength** to become **aware** of the **essential element** in us which can no longer give itself completely to the body, **nor penetrate the whole body**
- We must see ourselves as candidates for the **Jupiter Age**”

R. Steiner, Fall of the Spirits of Darkness, lecture 5, 28Oct1917, GA 177

What is Meant by the Jupiter Age?

The Next Cosmic Stage of the Human Condition





MAN AND MACHINES:

Can We Become Friends?

Aren't they the enemy?

Will We Merge?

Will We Become Their Angels?

Evolution of Machines

- Cain tilled the soil
 - Tubal-Cain, a smith
- Labor saving
 - Transport e.g. chariot
 - Warfare e.g. catapults
 - Manufacturing e.g. spinning wheel
- Energy (whose will?) powers
 - From plant to animal to steam engine
 - From fossil fuel to electricity to ?



Going invisible (to satisfy Ahriman)



- Cloud computing
- Wearable computing
- In-the-body computing - nanobots

Machines as Robots

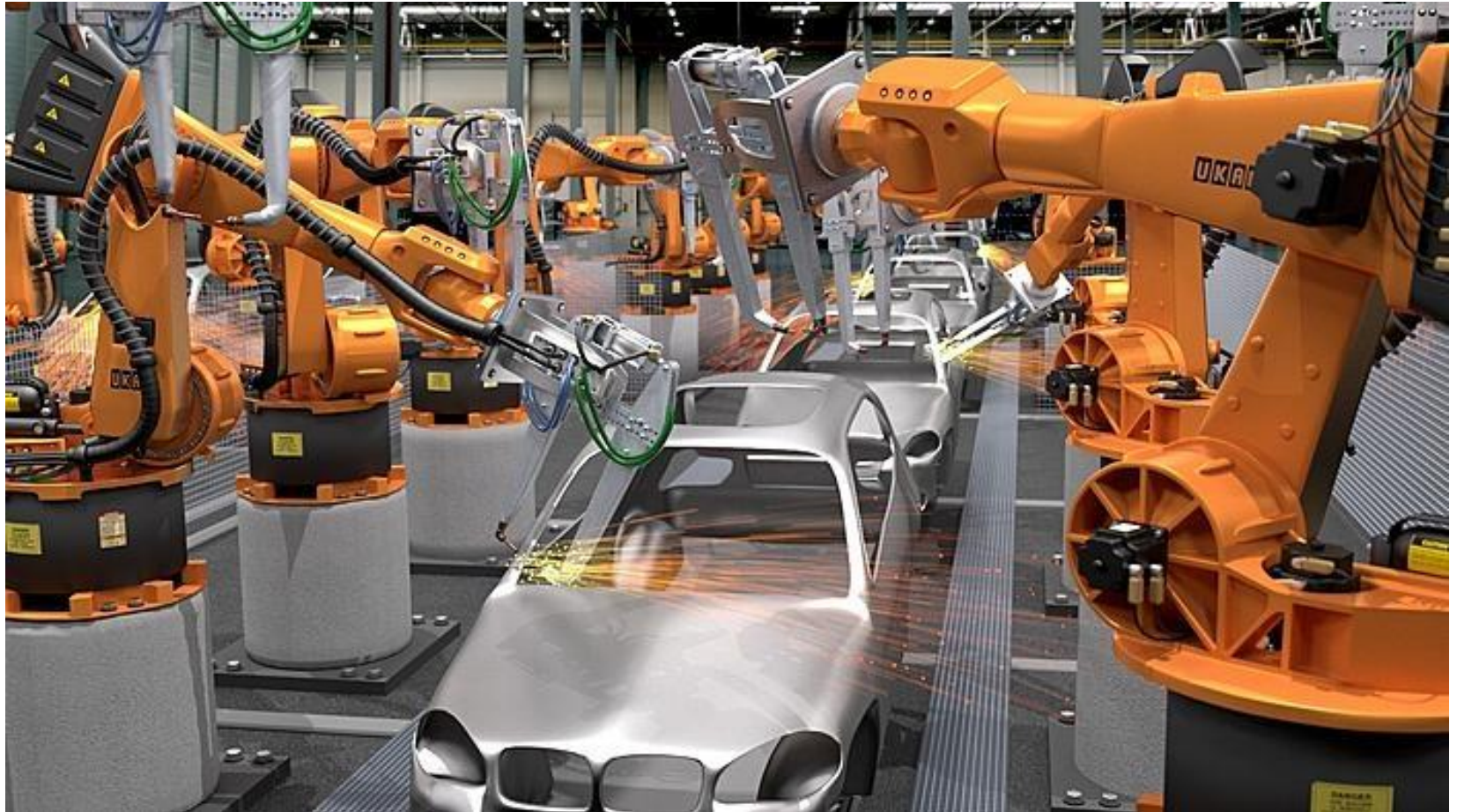
Examples:

- Hephaestus's automatons to/from Olympus
- www.worldrobotics.org
- www.ifr.org (international federation of robotics)
- SPARC
- euRobotics
 - A robot in every home
- National Institute of Advanced Industrial Science and Technology
- www.ParisTechReview.com

WW race to market on-going



Robots in Manufacturing



Impact on Manufacturing Jobs



- According to [PSFK](#), “The automation of labour is inevitable. Before the end of this century, 70% of today’s occupations will likely be replaced by automation.”
- No job is immune from impact: professionals, healthcare, design, art
 - Except, maybe, the performing arts What sort of jobs will be left? Professional only?
- In the future it will no longer be possible for people to bestow the warmth gained from the enthusiasm and joy derived from their work on the things produced but these things themselves will be purer as they are put into the world by workers – Source: Karma of Vocation, lecture 4, GA172

Robotic Intelligence Controlling Machines

- Cars
- Trains
- Airplanes
- Space ships
- Mines
- Hazard cleanup
- Elder care
- Day care



Robots in Home Care

To Stepford Wives [[film](#)]



To shopping and protecting

What is **missing** in robots?

- “Human” experience?
- Soul qualities?
- Artificial Soul possible?

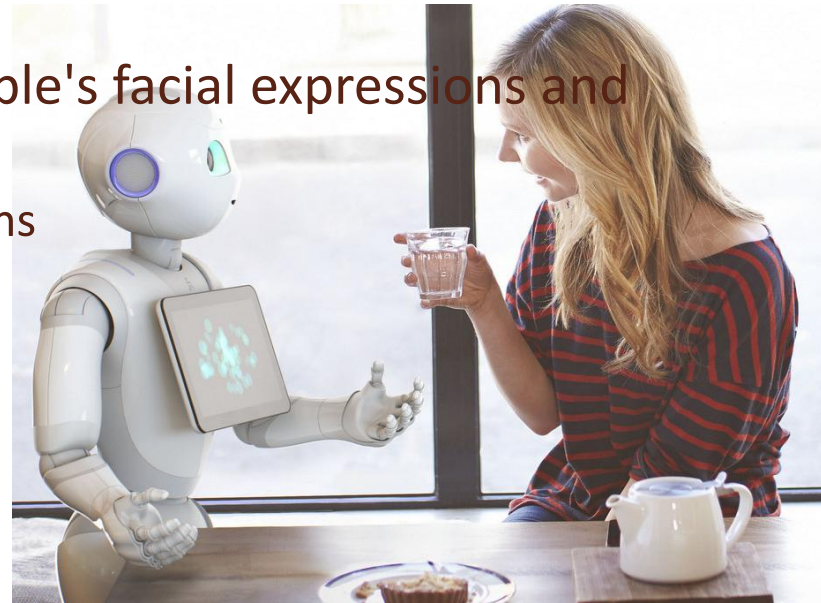
“Humanizing Technology”: The Family Robot

- <https://www.youtube.com/embed/3N1Q8oFpX1Y>



Add Some Pepper to Your Life

- Emotion recognition functions: “able to read emotions”
 - These emotion functions are modeled on the human release of hormones in response to stimuli absorbed by the five senses
- Autonomous emotion generator for its own (artificial) emotions
 - by processing information from his cameras, touch sensors, accelerometer and other sensors within his “endocrine-type multi-layer neural network”
- Emotions are influenced by people's facial expressions and words, as well as surroundings
 - Affects Pepper's words and actions
 - Happy when praised
 - Scared when the lights go down
 - Raises voice or sighs



<https://www.aldebaran.com/en/a-robots/who-is-pepper>

Robots with AI for Children

- AI with speech recognition
- “Learns”
- Names of pets, siblings, friends
 - What a child’s interests are
 - If grandparents are still living
 - Starts sales in time for Xmas



Mark Lennihan/AP Photo



MAN AND MACHINE: INTELLIGENCE CONSCIOUSNESS AND SOUL

Artificial intelligence: Turning our understanding of the mind right side up

Join CIFAR for a remarkable evening that will challenge your views on the divide between human and machine.



CIFAR Advisor Daniel Dennett, one of the most influential philosophers of our time, will share his new thinking about the nature of intelligence and human consciousness. He sees the first decades of artificial intelligence research as brave, brilliant, and largely wrong. But having climbed that ladder, he believes a new vantage point can reveal better ways of making intelligent computers and, ultimately, change our understanding of the human brain.

CIFAR Distinguished Fellow Geoffrey Hinton, the world's leading authority on a branch of artificial intelligence known as deep learning, will join Dennett on stage for a public conversation on how close we are to replicating human consciousness in machines and what this means for our understanding of cognitive science.

The evening will include a special tribute to Richard W. Ivey, former Chair of the CIFAR Board for his years of service to CIFAR.

Date: Wednesday, October 21, 2015

Time: 6:00 PM - 9:15 PM

Address:

Omni King Edward Hotel, Sovereign Ballroom
37 King Street East
Toronto, ON M5C 1E9

[Click here](#) to reserve your tickets by October 15, 2015
\$120 per ticket
\$80 Knowledge Circle members

Upcoming Events

Wednesday, 30 September 2015
Doubt everything: How science is transforming the way we think and the world we live in.

CIFAR Massey Talk

[Event details](#)

Wednesday, 21 October 2015
Artificial intelligence: Turning our understanding of the mind right side up

Artificial intelligence: Turning our understanding of the mind right side up

[Event details](#)

Tuesday, 3 November 2015
Keynote speaker Eldar Shafir on scarcity at Prosper Canada's ABLE conference

Keynote speaker Eldar Shafir on scarcity at Prosper Canada's ABLE conference

[Event details](#)

News & Events

Latest Headlines

Are We Already Cyborgs?

- Definition of Cyborg: *an organism to which exogenous components have been added for the purpose of adapting to new environments*
- Are children prepared?
- Extension of self
 - Mental
 - Also Physical
- Second virtual self
 - There 24 hr/day
 - Maintain
 - Attachment of 2nd being?
- Time & space
 - Compressed
 - Relaxed





Smart Machines Offer Emancipation

“Freedom’s just another word for nothing left to lose”

Janice Joplin

- What do we dislike about our jobs?
 - People? Complainers, office politics, lack of teamwork, ...
 - Grunt work
- What can machines NOT do?
 - Is this what you like about your job?
 - Are we freed to be more creative, more human?
- Will we fall or rise as machines intimately enter?
- In the Image of the Human
 1. Willing: Construction, transportation, weapons
 2. Feeling: Manufacturing, communications
 3. Thinking: Accounting, analyzing, modeling, databases, AI

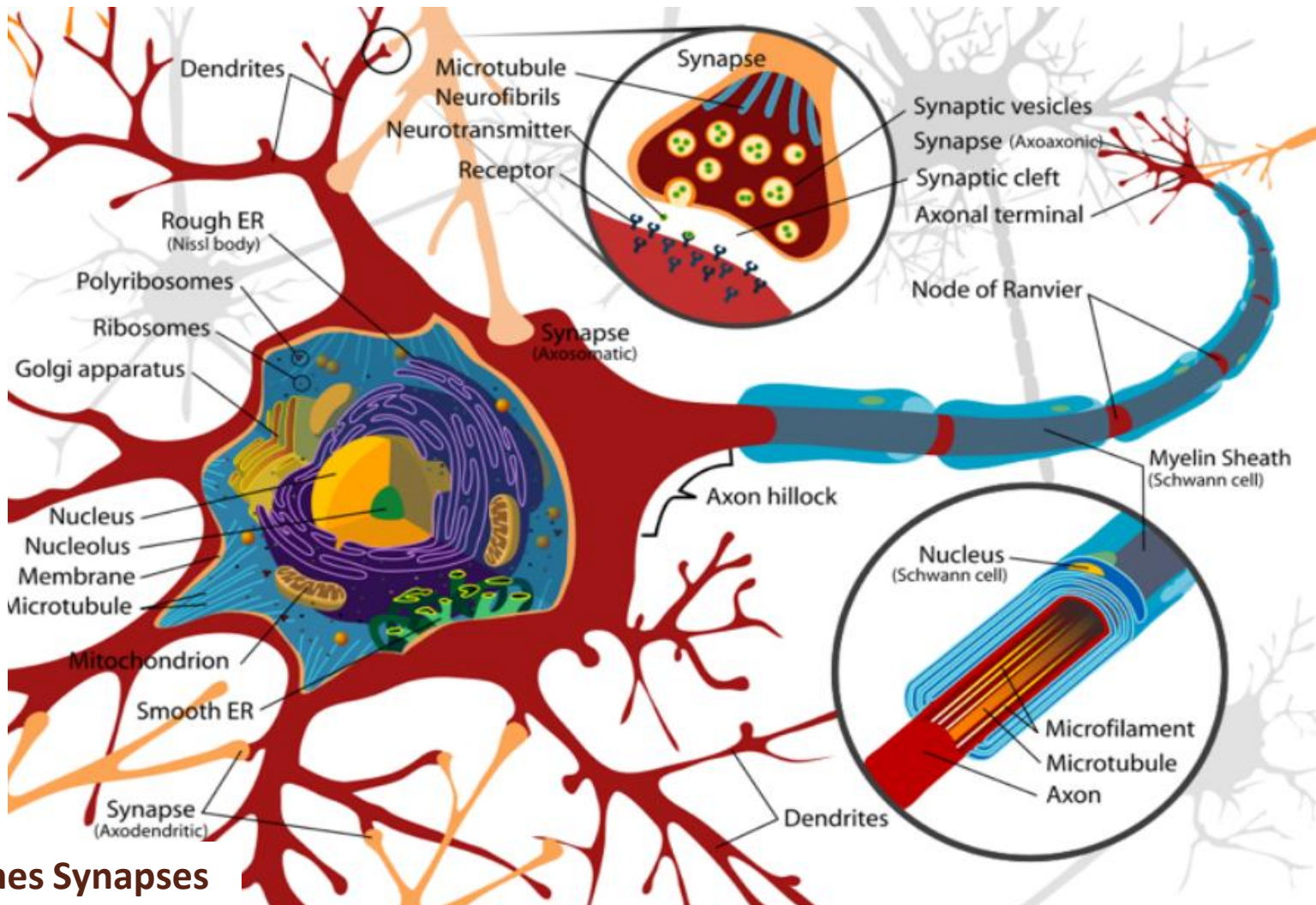


Is Human-Level AI Even Possible?

The reasoning goes like this:

- If people are biological machines, then eventually we will **reverse engineer** them, and understand their workings
- Then, surely we can **make improvements**
 - With materials and technology not available to evolution
 - How could there not be something we can improve?
 - Design can overcome local minima, make great strides, try things much faster than biology
- OK, when might this happen? AI Industry claims:
 - 25% chance by 2030
 - 50% chance by 2040
 - 10% chance never

Reverse Engineering the Brain

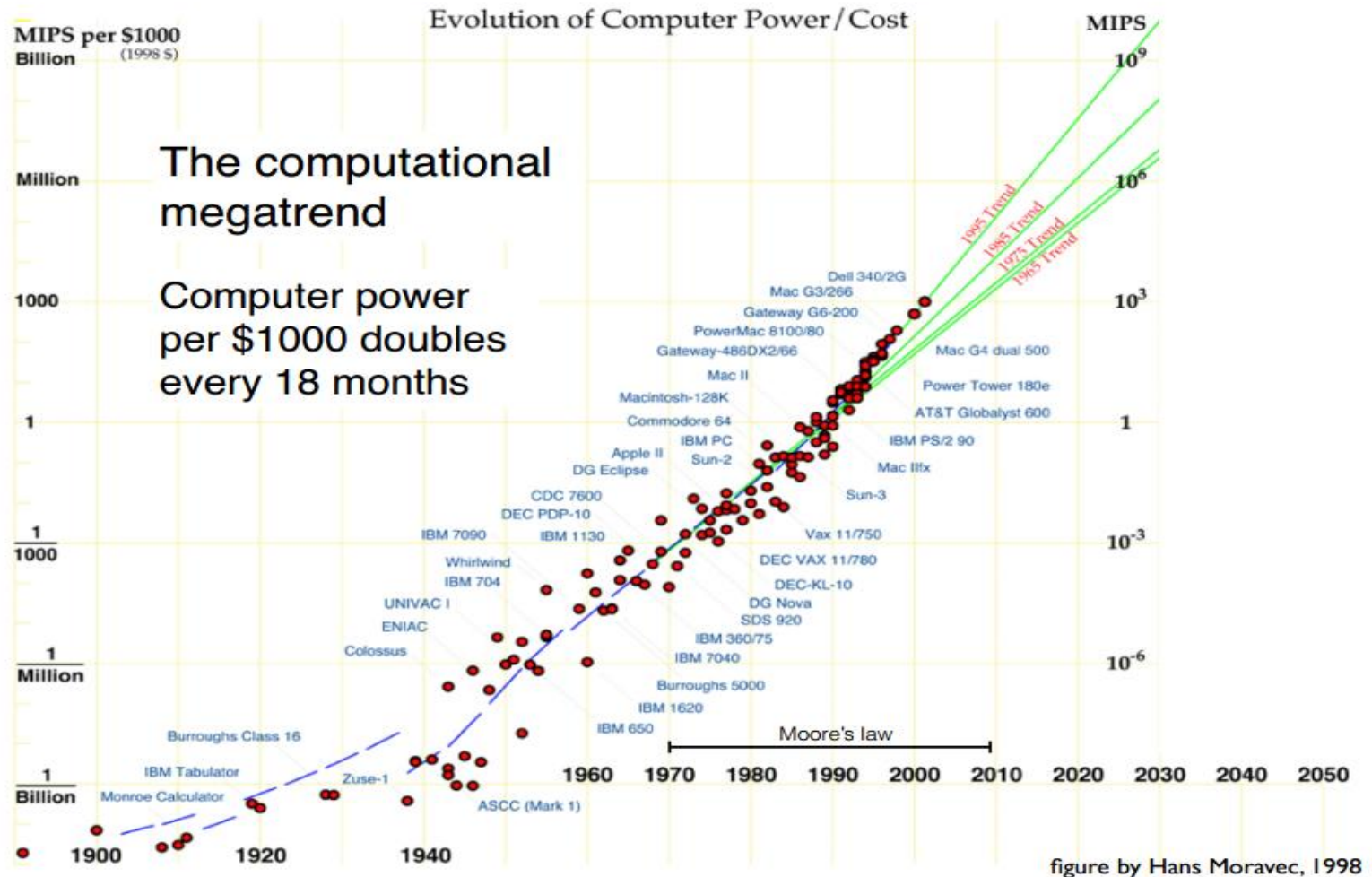


Logic assumes Synapses
correspond to Transistors

Neural Networks

When Will AI Become Human-Level?

“By 2025 these machines will have an IQ greater than 90% of the U.S. population. That ... would put another 50 million jobs within reach of smart machines.” Harvard Business Review, 2014



When Silicon Beings Surpass Carbon

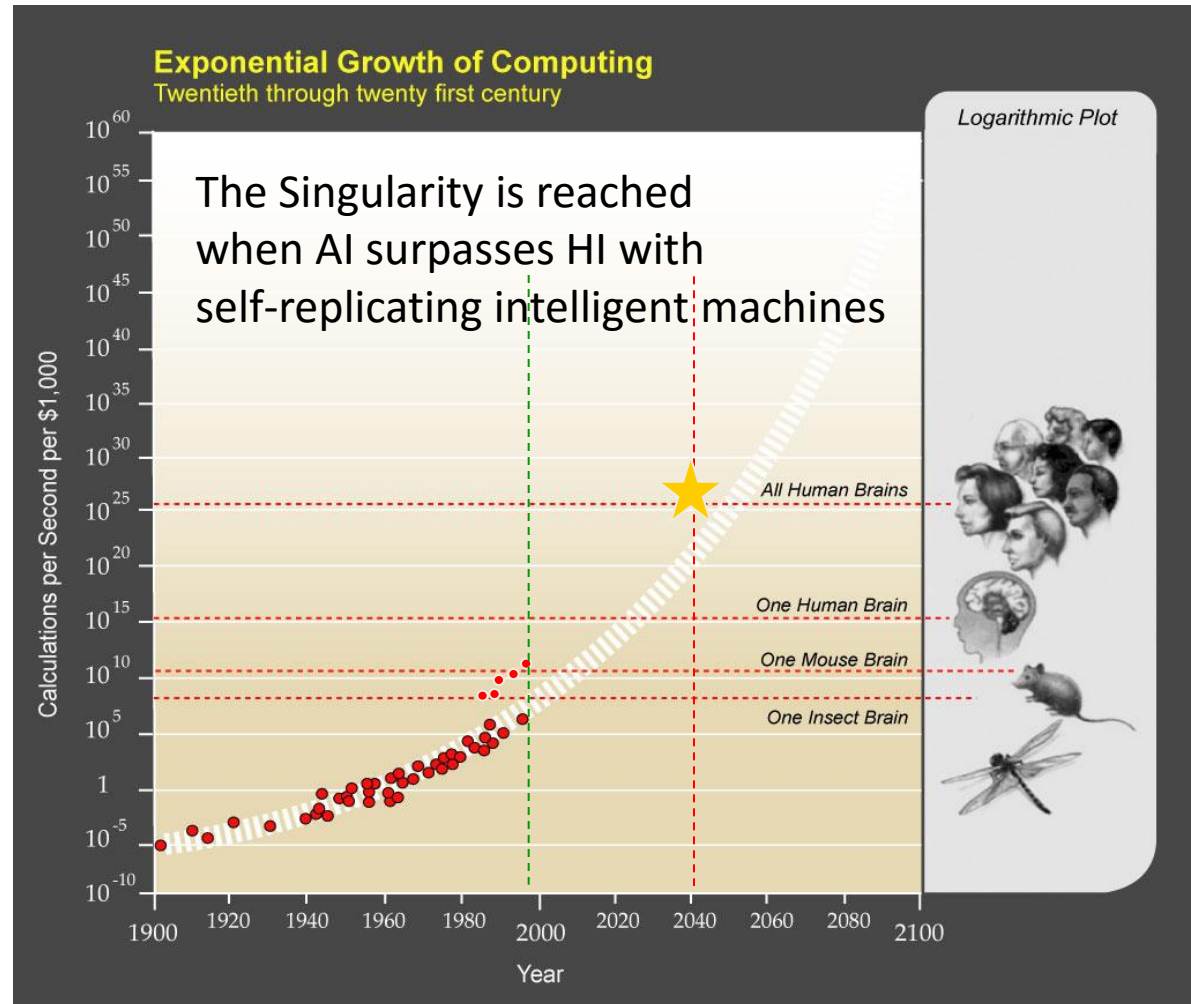
\$2000 computer, 2020 = human brain, 2045 = Σ all human

Law of
Accelerating
Returns:
technological
change is
exponential as is
the change in
the *rate* of
change

Blue Brain Project

Mimic the Brain

www.eetimes.com, May 28, 2008

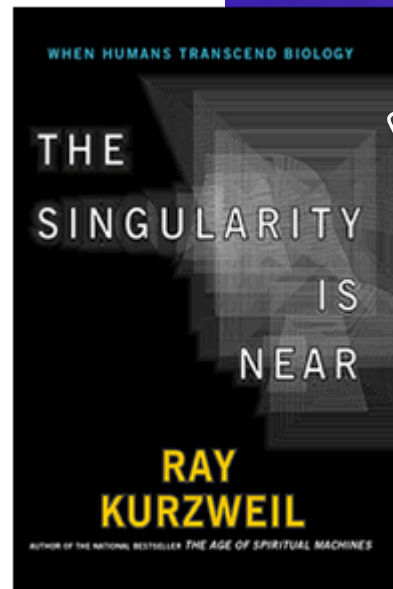
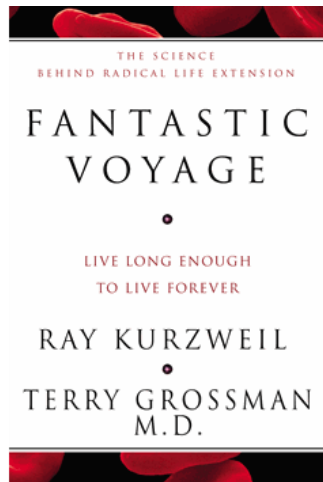
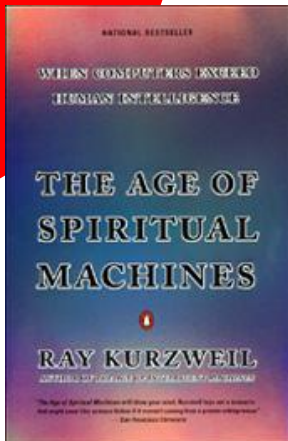


Ray Kurzweil's Vision of the Future

- Immortality is within our grasp
- When Humans transcend biology



Positivity
Enthusiasm



Key: GNR

What is “GNR”? What is Post-humanism

- Triune: **Genetics, NanoMedicine, and Robotics**
- Steiner: **Eugenics, Hygienic, and Mechanical Occultisms**
- D. S. Halacy's *Cyborg: Evolution of the Superman* (1965): new frontier at edge between ‘inner’ and ‘outer’ space; does a **bridge between mind and matter exist?**
- Ray Kurzweil: “Within a few centuries our successors will be able to redesign the entire universe **according to their own preferences**. Posthumans will eventually ‘**spiritualize**’ everything in the universe”
 - “This will be about as close to God as I can imagine” [egoism’s goal?]
 - “The **freeing of our thinking from the severe limitations of its biological form may be regarded as an essentially spiritual quest**”
 - From R. Kurzweil’s *The Singularity is Near*
- Hans Moravec: The boundaries between biological and postbiological intelligence will begin to dissolve
 - **Human equivalence is just the beginning, not an upper bound**
 - Asks us to speculate about a plausible, wonderful postbiological future and the ways in which our minds might participate in its unfolding
 - From H. Moravec, *Mind Children: the Future of Robot and Human Intelligence*



FLI's The Future of AI, Jan. 2, 2015

When people finally come to understand the principles of intelligence—what it is and how it works—well enough to design and create beings as intelligent as ourselves:

1. It would change the way we work and play, our sense of self, life, and death, the goals we set for ourselves and for our societies
2. It would also be of significance beyond our species, beyond history
3. It would **lead to new beings** and new ways of being, beings inevitably much more powerful than our current selves
 - A fundamental goal for science, engineering, the humanities, ... for all mankind -- http://futureoflife.org/misc/ai_conference

2045 Initiative

- Founded February 2011 by **Russian** entrepreneur Dmitry Itskov
- “Initiative aims to create technologies **enabling the transfer of an individual’s personality to a more advanced non-biological carrier**, and extending life, including to the point of immortality”
- “An international research center where leading scientists are engaged in research and development in the fields of **anthropomorphic robotics**, living systems modeling, plus brain and consciousness modeling with the goal of transferring one’s individual consciousness to an artificial carrier and achieving **cybernetic immortality**”
 - Fields of neural interfaces, robotics, artificial organs and systems



<https://www.youtube.com/watch?v=01hbkh4hXEk>

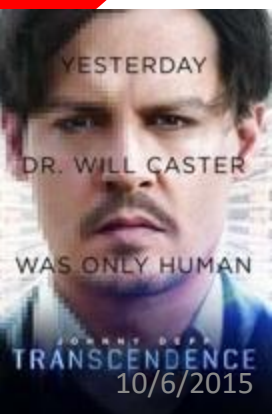
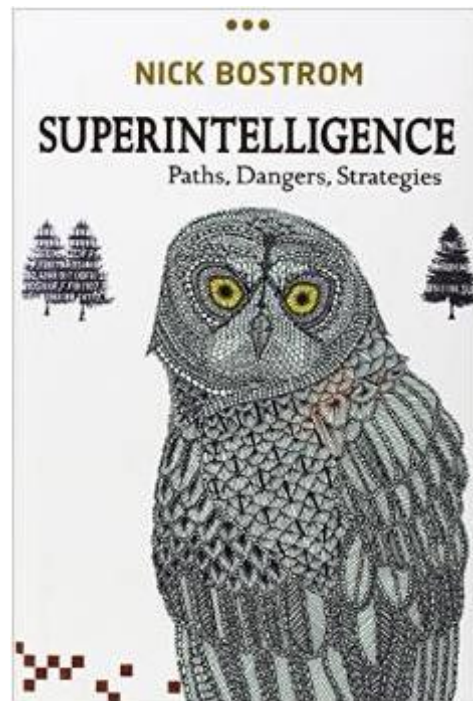
2045 Initiative's Timeline

- **2015-2020** Affordable android "**avatars**" with "brain-computer" interface
 - Work in dangerous environments, perform rescue operations, travel in extremes
 - Avatar rehab of disabled patients, prosthetic limbs, recover lost senses
- **2020-2025** Autonomous life-support system **linking brain to a robot**
 - Avatar saves people whose body is completely worn out or irreversibly damaged
 - Any patient with intact brain will be able to resume a fully functioning bodily life
- **2030-2035** Computer **model of the brain and human consciousness**
 - Transfer individual consciousness to an artificial carrier: cybernetic immortality
 - Ordinary people will restore or modify their own brain multiple times
 - A real revolution in the understanding of human
- **2045** **Substance-independent minds** receive *new extreme bodies*
 - A new era for humanity will have arrived! – **become a new species**
 - **Large-scale expansion into outer space becomes feasible**



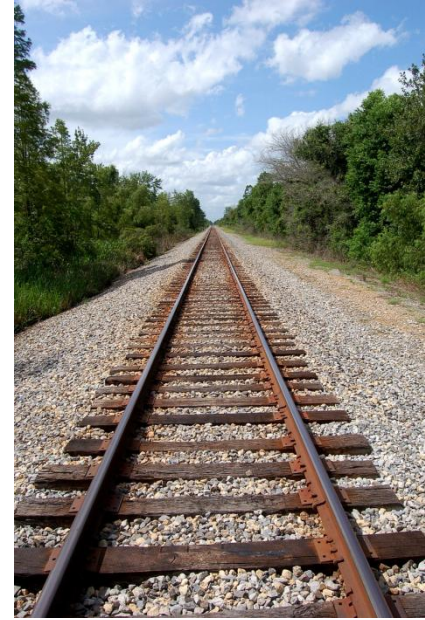
Onward to God-Intelligence

- “If some day we build machine brains that **surpass human brains** in general intelligence, then this new superintelligence could become very powerful. And, as the fate of the gorillas now depends more on us humans than on the gorillas themselves, so the fate of our species would **depend on** the actions of the machine superintelligence.”
- “We do have one advantage: we get to build the stuff. ... It also looks like we will only get one chance. Once unfriendly superintelligence exists, it would prevent us from replacing it or changing its preferences.” – Nick Bostrom
- Will Superintelligence rival Godintelligence?
 - God the all-wise, God is love, and super-AI?
 - For Good or Evil?



It is Not the What but the How

- Futurologists see a What similar to Steiner's
- If such a 'hybrid' vision comes true
 - How soon will you want to incarnate again?
 - How is their vision different from Steiner's?
- Is this a de-humanized future?
 - Has such a dreary outlook ever occurred before in history?
 - Is our destiny better if Man and Machine do NOT merge?
- Body and Soul: What becomes of attaining Atma?
 - What will it mean to the Christ if our bodies cannot resurrect?
 - Members of SfSS: work with Lesson 2's mantram
- Are we getting helpful pictures from the spiritual beings who are preparing for the return of the moon?



Human Consciousness & The Brain

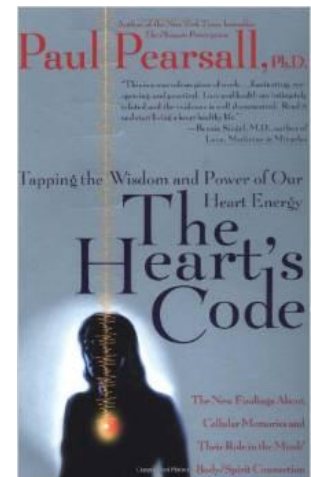
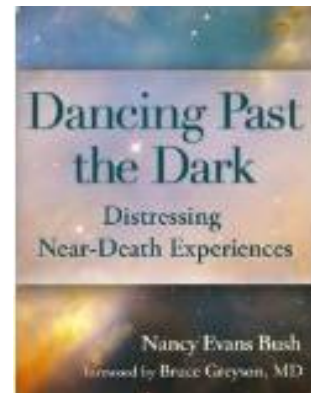
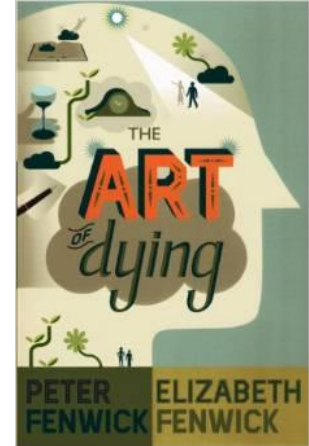
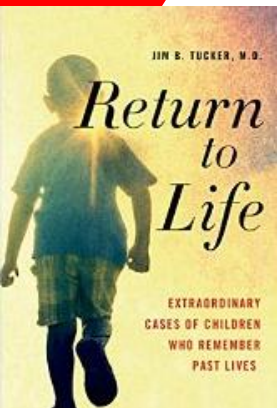
Will we “be there” once we reverse engineer the brain?

- Peter Fenwick
 - Eminent neuropsychiatrist
 - Academic expert on disorders of the brain
 - Research: end of life phenomena
 - **Consciousness may be independent of the brain and so able to survive the death of the brain**
 - Change attitudes so that we in the West can *face up to death*, to embrace it as a significant and sacred part of life
- Richard Greyson
 - Professor Psychiatry and Neurobehavioral Sciences, UVa.
 - Researcher in the field of near-death studies
 - <https://www.youtube.com/watch?v=Rtk644N2DDs>
 - <https://www.youtube.com/watch?v=en-3Bz1RMig>

Paul Pearsall

- The heart is more than just a pump; it conducts the cellular symphony that is the very essence of our being
- Research on cellular memory of the heart
- Do memories move with transplanted heart? Other organs?

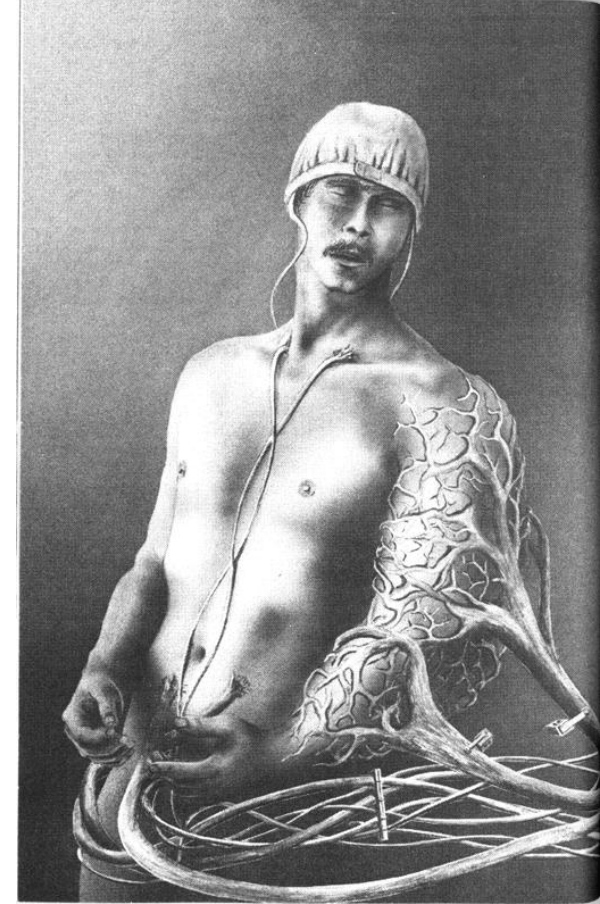
Jim B. Tucker *studies of recollections of past lives*





Ever Have This Experience?

- “I know what you’re thinking!”
 - We can sense another person’s thoughts
- If we as separate beings can do this, what can our angels do? They sense in our thinking!
 - They are the spirits of twilight, at the border where are senses
 - (They are the snits who tell on us to the ruling archangel)
- What about our feeling?
 - Archangels experience here
- And what about our willing?
 - Archai
- What happens to them if we merge with machines?
 - What happens to the elementals associated with the machine?



MERGING MAN AND MACHINE

PROSTHESIS

VIBRATIONS

Is it Wrong to Couple Man to Machine?

Improving Prosthesis

- From Captain Hook to ...
- Helping the maimed to live
 - Is this not the Christian thing?
 - Or is it one's karma (so do nothing)?
- Built in robotics – better than bio?
- Is this a slippery slope?
 - Temptation to change natural (weaker) for artificial?
 - Example: plastic surgery
 - How does the human soul & spirit deal with mechanical limbs?
 - Can Atma still be attained?
 - What does it mean for future generations?



Bionic Eye

- Allen Zderad was blind 20 yrs.
- Given a bionic eye implant
 - Created by Second Sight, Inc.
- Mayo Clinic (Raymond Iezzani)
- Works by bypassing his damaged retina and sending signals directly to the optic nerve
- A small chip was attached to the back of the eye with multiple electrodes offering 60 points of stimulation
- Future version could have 1000 points of stimulation
- Source: <http://www.medicalnewstoday.com/articles/289863.php>



Bionic Limbs

- Three Austrians have replaced injured hands with bionic ones that they can control using nerves and muscles transplanted into their arms from their legs
- His son, then 4, said proudly, "my father is a robot"
- Transplanted arm (from cadaver) would have meant taking anti-rejection drugs for the rest of their lives
- 98% of amputees report **phantom sensations**
 - Also see [mirror-touch synesthesia](#)
- Isn't this very expensive? – only for the rich?



Bionics Becoming Affordable

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



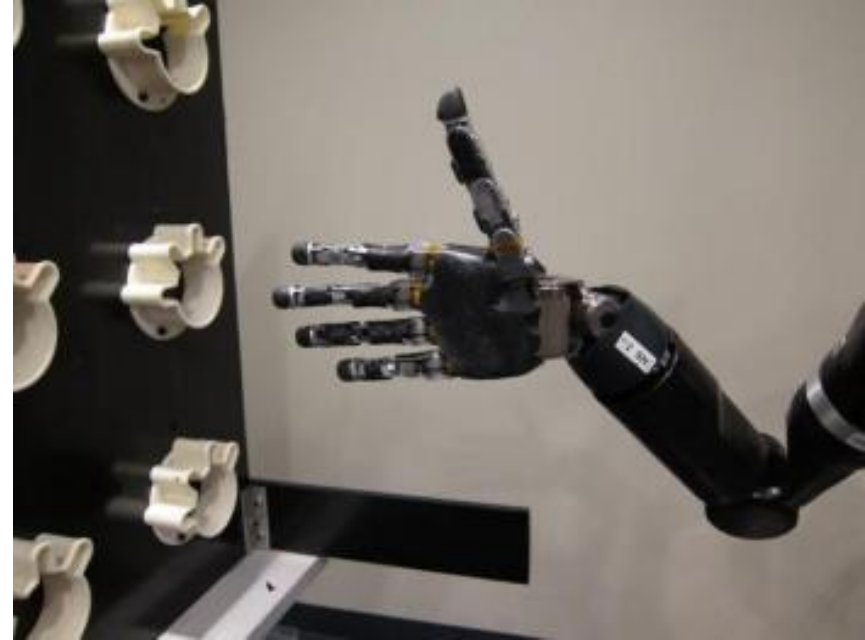
Linking the Brain to Mechanical Arms



Link to [video](#)

How it Works

1. Record brain activity
 2. Set brain probes
 3. Train brain to use
 - Jan Scheurmann watched animations of movements and imagined them
 - The signals her brain sends to calibrate the system are recorded
 - Then "reading her thoughts" allows proper placement of probes she uses to move the hand
- Source: <http://www.medicalnewstoday.com/articles/287120.php>
 - Can the human change to accommodate machines?
 - Does neuro-plasticity play a role?



Neuroplasticity of the Brain

- Refers to changes in neural pathways and synapses due to changes in behavior, environment, neural processes, thinking, emotions, as well as changes resulting from bodily injury
- Known in vision improvements
- Leads to human trials on a broad scale for motor cortical implants to help quadriplegic or locked-in patients perform tasks and communicate with the outside world



Recent News (May 21, 2015)

- Erik Sorto, paralyzed a decade, was recently able to pick up a beer and drink it thanks to a robotic arm.
- “He's painted pictures, made the smoothies.
- It's a very good thing for our patients who are paralyzed to see such tech wizardry.”
- For ALS, severe strokes



- [Upright Paraplegics Show Improved Health Stats](#)
- [Wearable Robots on the Rise to Help Paraplegics Walk](#)

Investments Now Pouring In

- “I'm getting quite a few questions lately regarding one of my favorite companies, **Ekso Bionics Holdings Inc.**(OTC:EKSO). As you know, the company is tied into one of the most dynamic Total Wealth Trends of all - and potentially the most profitable, too - Human Augmentation. So I thought we'd revisit EKSO and, in the process, update some of the interesting stuff that's going on.”
- www.totalwealthresearch.com

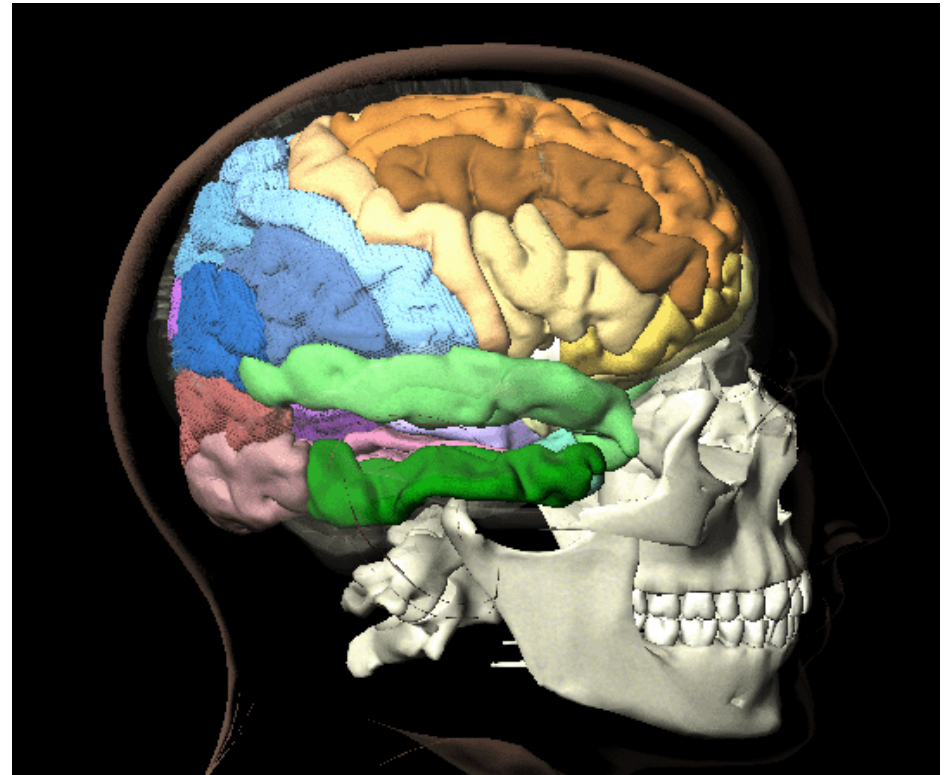


<http://eksobionics.com/ekso>

Leading to Brain Augmentation

Embed

- GPS & RFID
- Wireless internet
- iPad functionality
 - Voice recognition
 - Connect vis-cortex
- Health sensors
- Psychological guides
- Might these be embedded at birth?



Virtual Reality

Imitation of the Etheric Realm



- Coming when oil runs out
 - Work from home
 - Over **Ether**-net
- Wireless sensory augmentation
 - Implantation at or even before birth
 - It will become the norm
 - Visual & audio easy – how about touch?
- A New Maya – a second “reality”
 - Mental context switch
 - Need for a threshold? Nanny or Guardian?
 - Much easier entry than to spiritual world



Moral Questions



- If someone is suffering, what do we do?
 - Christian impulse
- Free someone in a biological prison?
 - Let them live a near-normal life
- Do we know what we are doing?
 - Risk/Benefit “equation” enough?
- Is there a role for illness? Suffering? Karma?
 - Who can judge if someone suffering should suffer?
 - Was it not said that suffering and karma come from the good divine-spirits?
 - Will illness itself evolve when we no longer have bodies?

Approaches to Mechanical Occultism

Which
side are
you on?

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

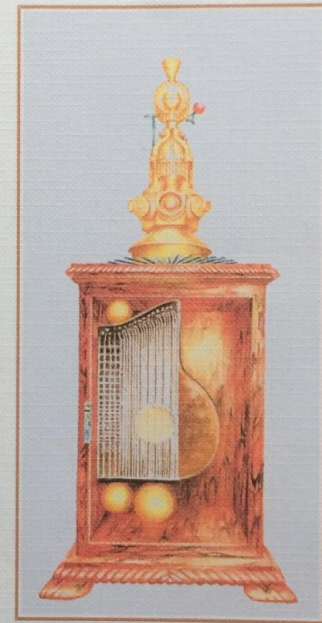
THE
CHALLENGE
OF THE
TIMES

Rudolf
Steiner

Resonance and Moral Technologies

- “Introduce life into things he makes”
- “Whoever is doing this at the laboratory bench will have to be capable of drawing out of himself – let us call them the oscillations of his etheric body – and carrying them over into that which is to receive life”
- Knowledge of how to do this is guarded by the White Lodge and will only be released when men have learned the secret of sacramentalism”

Machines and the Human Spirit



Paul Emberson



MACHINES ENTER OUR FEELING LIFE



Trailer 3
 Play 2:32

Trailer 2
 Play 2:29

Trailer
 Play 2:03

Ex Machina [®]

In Theaters April 10th, 2015 | © 2015 A24

A young programmer is selected to participate in a breakthrough experiment in artificial intelligence by evaluating the human qualities of a breathtaking female A.I.

Director: Alex Garland
 Writers: Alex Garland
 Actors: Oscar Isaac, Domhnall Gleeson, Alicia Vikander
 Genre: Thriller, Science Fiction

Details

Seduction of AI, **Fear of Machines** “taking over”, is this from Michaelic Insights? Robotic moral code?
 How is Ahriman to be met, balanced?

“I Love My Apple”

- “It’s in Apple’s DNA that technology alone is not enough.
- That it’s technology married with liberal arts, married with the humanities, that yields us the result that makes our hearts sing.”
 - Steve Jobs when announcing iPad2, March/2011
- Balancing cold Ahriman with warm Lucifer
- But can we really **love** our machines?



Our Goal: Develop Love and Freedom

- Pygmalion
- He
- Pygmalion
- He
- W
- Pygmalion



ry
love
odite
living
e, he
in he

Pygmalion by Jean-Baptiste Regnault, 1786, Musée National du Château et des Trianons

RoXXy the 'Healthcare' Robot



- Has conversations with you but never says “not tonight dear”
 - Multiple artificial personalities (set from a menu)
 - e-skin is responsive to touch
-
- Will have simulated orgasm (dial for speed, simultaneous)
 - “Ain’t nothing like the real thing, baby” – or will this too change?
 - More sex robots: <https://www.youtube.com/watch?v=wLVOnVsLXqw>



What Will Replace Our Physical Bodies?

- 7th Millennium: women become infertile
- How will we be able to experience the physical world?
- Work out our karma?
- It was Porn Sites that gave birth to e-commerce
- It was a betrayal that enabled the Mystery of Golgotha
- Don't we need to do Avatar test runs?
- Are we preparing bodies for those who will be human on Jupiter?



(The fulfillment of the Sons of Fire)

THE WESTERN PATH

spirit

soul

life



Rudolf Steiner



SPIRITUAL SCIENCE PERSPECTIVES

"One must not disclaim the world when one wishes to rise higher; an ascetic fleeing from the world does not serve clairvoyance. **Clairvoyance is the fruit of what the soul collects in the sense-world.** Greek philosophy beautifully compared the human **soul with a bee**. The world of color and light offers the soul honey which it brings with it into the higher world. **The soul must spiritualize sense experience and carry it up into higher worlds.**"

The Origin of Suffering, Origin of Evil, Illness, and Death, GA 55 – Berlin, 22nd November 1906



Confronting Ahriman

- “In an **ether-body** that has been **parched** by materialism, Ahriman will be able to dwell
- “It is our duty to **educate children** in the future in such a way that they will be competent to understand the spiritual world
- “The ether-body must be **quickened** in order that the human being may be able to take his rightful stand, fully cognizant of the nature of the being who stands at his side
- “If he does not understand the **nature of this second being**, he will be spellbound by him, fettered to him”
- “We, in our age, must get the better of Ahriman by **enriching the Ego with the wisdom** that can be born only from knowledge and investigation of the spiritual world, i.e. from Spiritual Science”

Rudolf Steiner, *The Balance in the World and Man, Lucifer and Ahriman*, Lecture 1



The Activity of Ahrimanic Beings in Us

- Build their strongholds immediately below the surface of the Earth
 - Activities rise up into metabolism, **struggle to harden man**
 - They want to make us like themselves
 - If successful, man would become **extremely clever in the material realm**
- Clutch at Man's strong & rude instinctive nature and seize hold of it
 - Falling victim to these Ahrimanic powers: given up to one's passions and leading a wild, sensual life
- **Hold on to one's instinctive nature and tear it out of him after death**
- Efforts, **going on for 1000s of years**, have succeeded in producing a whole **race of sub-human beings**
 - A whole population of beings who have arisen in this way exists!
 - **Sub-human race in the elements of earth and water** below the surface
- *Man's Life on Earth and in the Spiritual Worlds*, Lecture 5, 16Nov1922



Goal of Ahrimanic Beings in Us

- The Ahrimanic powers are waiting for the time when men will descend to incarnation and, on account of a karma that their instincts and passions have prepared for them, feel particularly drawn to certain of these beings and say to themselves: **“I will not go back to the spiritual world; when I have left my physical body I will incorporate myself in a sub-sensible being of this kind.”**
 - That will mean, I shall be able to stay on the Earth
 - I shall not die any more, but be permanently united with the Earth
- These Ahrimanic beings persist in believing they will ultimately be able to **entice such a vast number of human beings into their own race that the Earth will one day be peopled entirely with such sub-humans**
 - **They hope to make the Earth itself immortal**, so that the hour may never come for it to perish and be dispersed in cosmic space
- *Man's Life on Earth and in the Spiritual Worlds*, Lecture 5, 16Nov1922

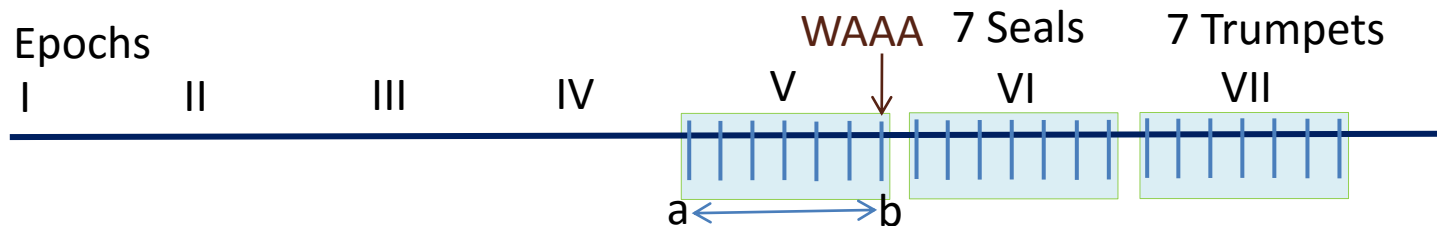


Facing a Future with Machines (Western Path)

- “All that is present in the world today in terms of machines and instruments and is set in motion [to serve the **principle of utility**] will evolve into terrible, horrifying demons”
- “This can be stopped if we transform the utilitarian apparatus into something that also **proclaims beauty or the Divine.**”
- “Our feelings of **fear** are **nourishment** for evil beings.” — *Jan.26, 1908, Berlin, GA 245*
- Will dead thinking of AI reveal human living thinking?
 - Will we see more clearly what the HB is? Moral impulses?

War of All Against All

- “In the **seventh epoch** 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 [self-functioning] live **electric mass**.
- “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



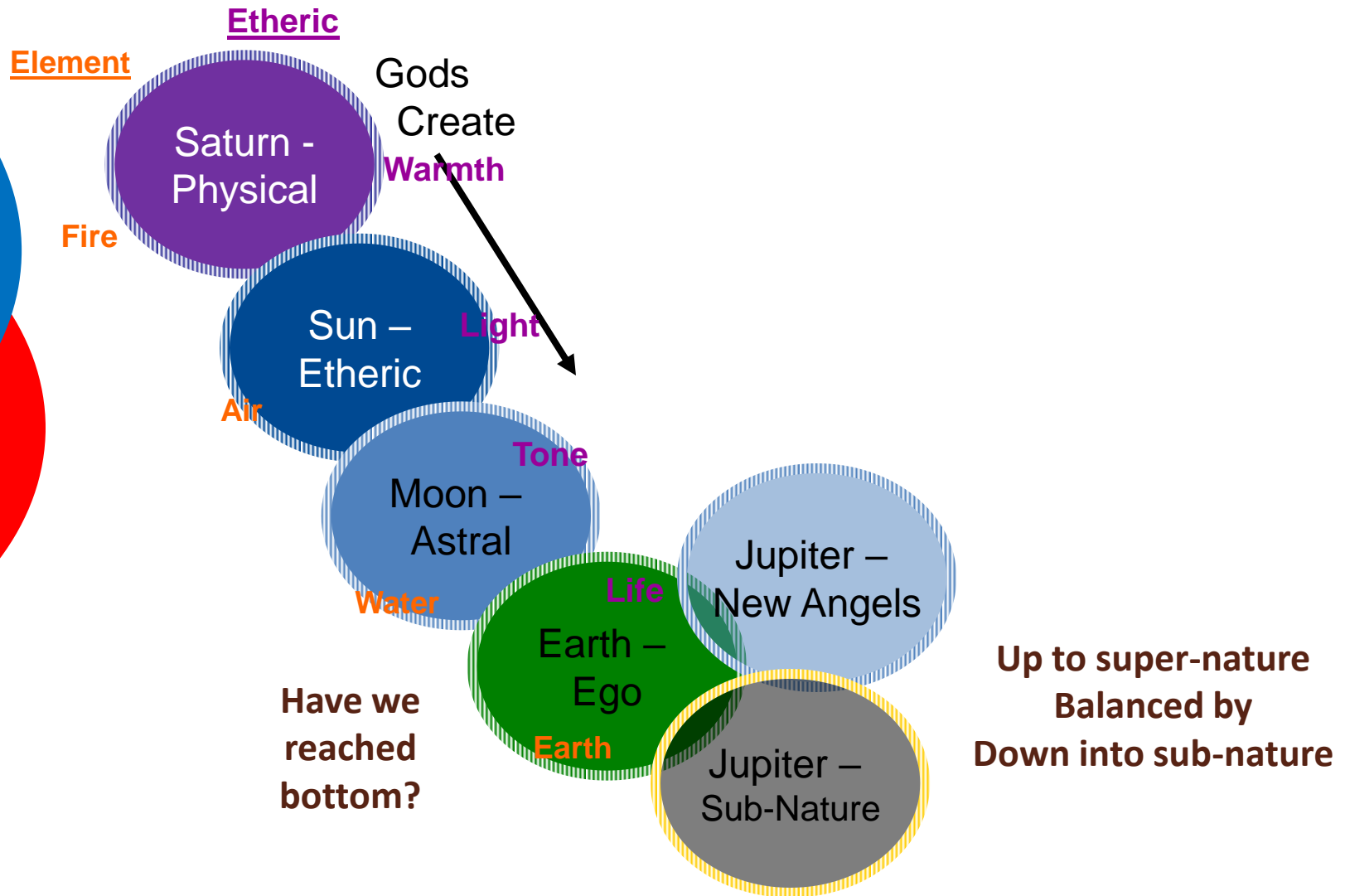


Future Ages and Epochs

- 6th PA Age (Russian) will found civilization after WAA
 - Not the last (7th – American), founds the 7 Seals' civilization
 - 5th Atlantean race founded PA cultures
 - Western Path: Taking on Evil (Mission of Mani)
- 6th Epoch: Live in a **Descended** Astral World
 - Current images, expressions, manifestations
 - Unable to hide anything
 - Show good and evil in their faces – *but what will be our face?*
 - Evil man will express his evil, a good man will express the good
- 7th Epoch: Live in a **Descended** Devachan (Heavenly)
 - Impossible to hide what is in one's soul even in speech
 - Thought no longer remains dumb – becomes Word
 - Goal: All earthly beings become an astral heavenly body
 - Physical substance will be 'dissolved' as Archai achieve Atma
 - Countenance and words of beings as expression of Christ

Rudolf Steiner, *The Apocalypse of St. John*, Lectures on the Book of Revelation, 12 lectures from 17 to 30 June 1908

Next Cosmic Stage of the Human Condition



The Human Stage in Old Moon

- On Old Moon the Angeloi were at the human state
 - Their appearance was quite different from ours
 - Quite different conditions existed
 - We developed to an advanced pre-state of the Earth evolution
 - We became a troublesome concern for the Angeloi
- On Earth, Angeloi were able to use our bodies as an avatar
 - Incorporation – not incarnation

The Mission of the Archangel Michael, V, The Michael Deed and the Michael Influence as Counter-pole of the Ahrimanic Influence, November 29, 1919



Overlapping Evolutions

- In our **descending evolution** (now) the Jupiter Humans arise
 - On Jupiter, they will have advanced to a new & different form of human
 - These Jupiter men exist already now just as we existed upon Old Moon
 - They exist not externally visible but as supersensible beings
- We become responsible for them similarly to how angels became our guardian angels



The Mission of the Archangel Michael, V, The Michael Deed and the Michael Influence as Counter-pole of the Ahrimanic Influence, November 29, 1919



Now Entering Earth's Stage

21

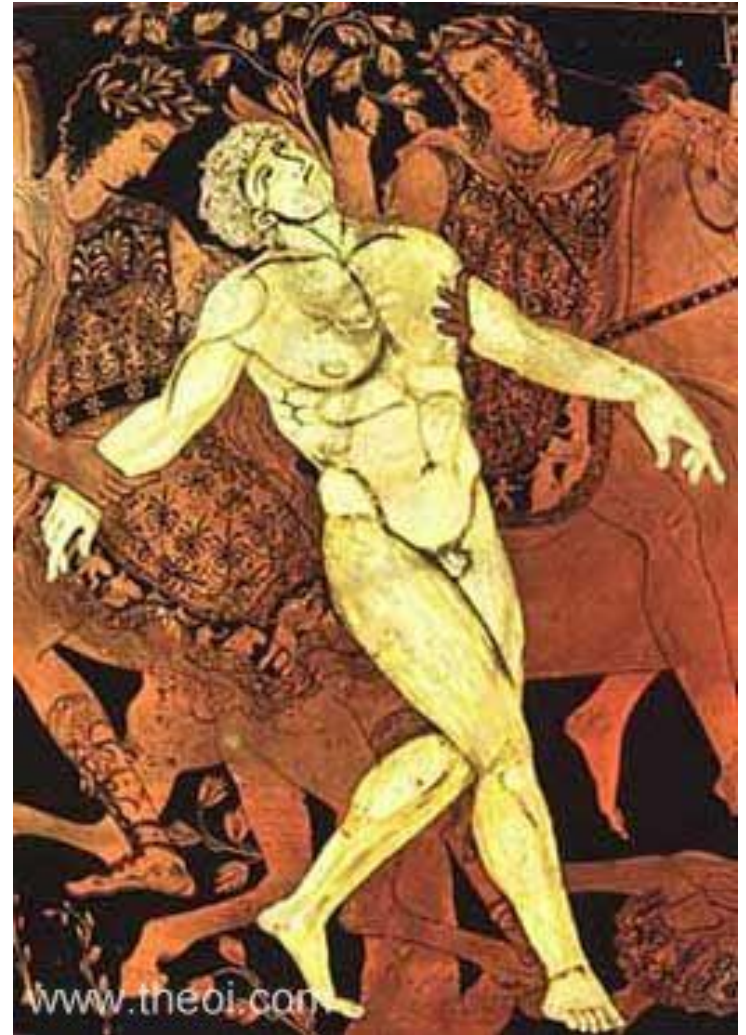
Important result of spiritual-scientific research:

- **Earth evolution has entered its descending phases**
 - Other beings make themselves felt
- “We have already entered the period of Earth evolution when **certain beings make themselves felt who upon Jupiter** — the next state of Earth evolution — will have advanced to the form of man, a different form of man, to be sure, but which, nevertheless, may be compared with the being of man”
 - “For we will be different beings on Jupiter
- **“These so-to-speak Jupiter-men exist already now just as we existed upon the Moon**
 - **They exist, of course not externally visible.** Supersensibly these beings are very decidedly present.”
 - R. Steiner, *The Mission of the Archangel Michael*, The Michael Deed and the Michael Influence as Counter-pole of the Ahrimanic Influence, 29Nov19

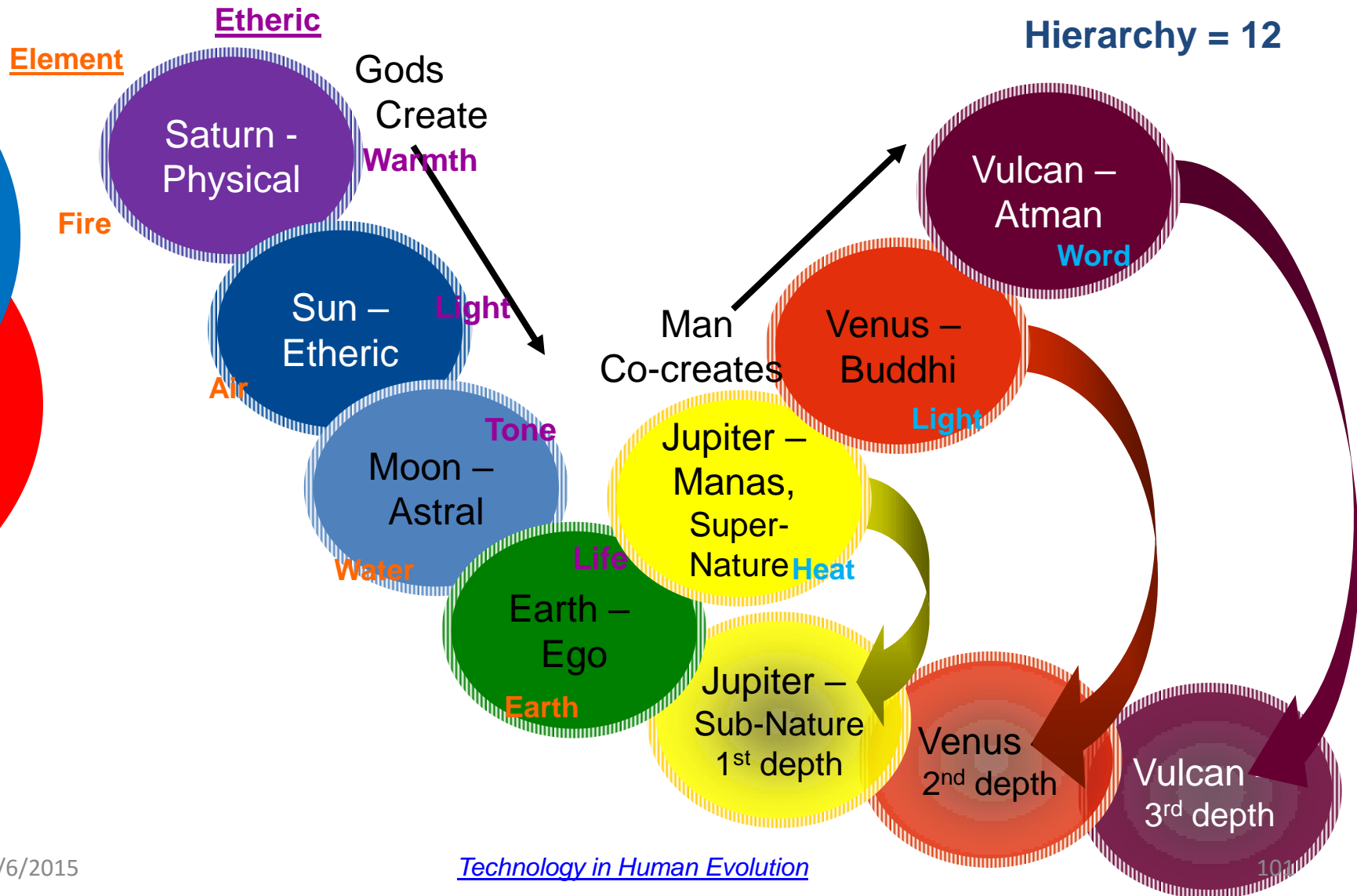
Shouldn't We Test Drive The Jupiter Bodies?

- Get it right before asking new beings to drive them
- Man-Machine Hybrids
- Ability to drop into the controls as an avatar
- What kind of world will they experience?

Automaton Talos, Athenian red figure Krater 4th C B.C., Jatta Museum, Ruvo



7 Stages of Human Condition



Gifts of Technology

- Emancipation
 - Labor, typing, reading, ...
- New ways of establishing relationships
 - Must permeate these with spiritual science
 - Man-Machine interface through sympathetic subtle vibrations
- Lifts the Veils of Materialism
 - Dead vs living thinking
 - Intelligence vs Wisdom
 - Analysis vs Creativity
 - Supremeness of consciousness
 - More than intelligence
 - Consciousness soul “discovers” its ego (not in AI or robots)
- If we can endow, were we endowed?



What is it NOT?

- Companion?
- 12 senses?
- Living?
- Soul?
- Spirit?



Conclusion: There is a Social Future

But very different from what we know today

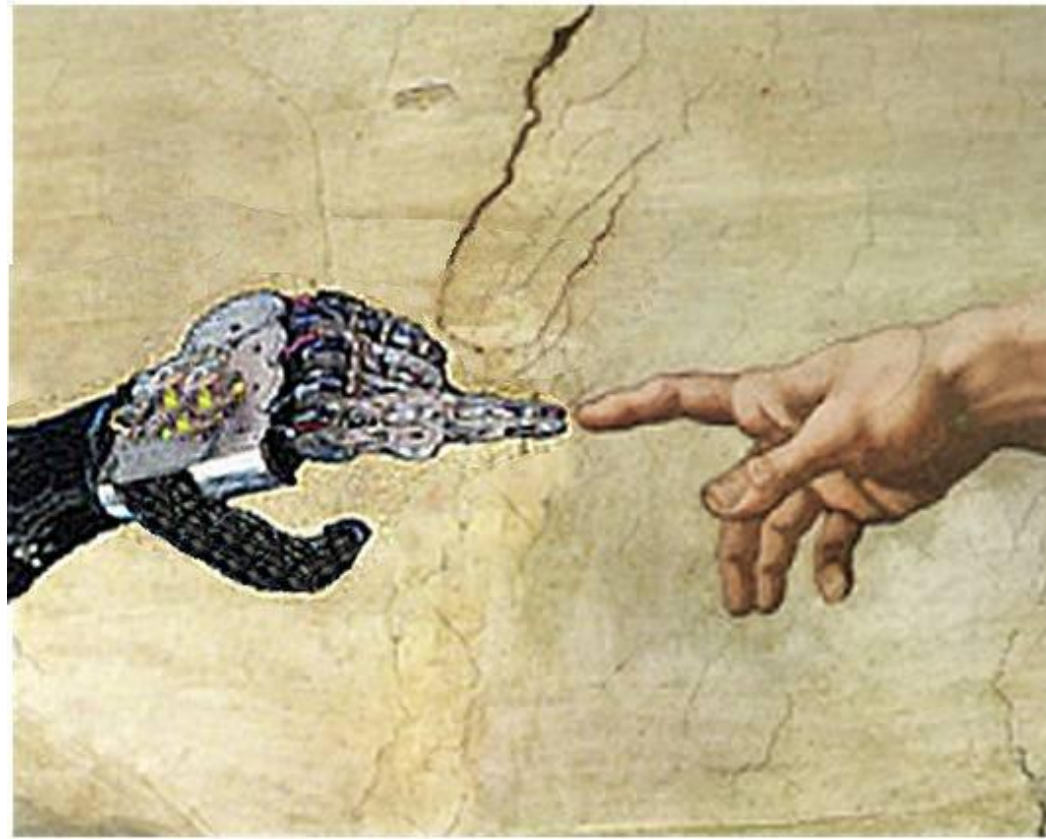
1. **Western destiny is with technology especially machines**
 - It actually is a battle for the etheric realm and for elementals
 - Many dangers prevail crying in the wilderness
 - Nanotechnology, e.g., is a dangerous frontier
 - Time to fully wake-up, know what truly is the human being
 - We must go this path but not lose what it is to be a Human
 - Fear or hatred of the future feeds Ahriman
 - Parallel development of spirit and body for Jupiter-Men underway
 - Beginning through the will, Man's contact with and responsibility for Jupiter-humans will increase
2. Man must be a **balance** of sub & super Nature, dark & light, male & female wisdom, and other polarities
 - New mysteries arise through this balance
 - Who will build the **new Masonic mysteries**?
3. Man will **co-create Jupiter** and beyond
 - “Oh Man, Know Thou Thyself” itself evolves
 - We start now becoming the guardian angels to the Jupiter-human



Questions?

**As angels permeated Earth with Wisdom from the
Kyriotetes, what beings will we assist to build a
Jupiter permeated by Love?**

And, thank you for sharing your insights!



END



Further Study

By Rudolf Steiner:

- The Temple Legend
- Concerning Electricity
- The Mystery of the Human Double
- The Michael Deed and the Michael Influence as Counter-pole of the Ahrimanic Influence
- The Deed of Christ and the Opposing Spiritual Powers
- The Elemental World and the Future of Mankind
- Building Stones for an Understanding of the Mystery of Golgotha
- The Karma of Vocation
- The Challenge of the Times
- Inner Impulses of Evolution
- Materialism and the Task of Anthroposophy
- Foundations in Esotericism
- An Esoteric Cosmology
- The Elemental World & the Future of Mankind

By Others:

- The Battle for the Etheric, Nick Thomas, Temple Lodge Press, 2006
- I Corinthians 12:12-27, a passage ending with “Now ye are the body of Christ”
- The Futurist, March-April 2006, www.wfs.org
- Blue Brain Project, www.eetimes.com, May 28, 2008
- Alan Turing paper Computing Machinery and Intelligence, Mind, 1950
- Will Robots Inherit the Earth? Marvin Minsky, Scientific American, Oct 1994
- The Futurist, March-April 2006, www.wfs.org, pg. 42
- <http://www.cyberkineticsinc.com/>



Additional Rudolf Steiner Bibliography

- An Outline of Occult Science, 1909
- Egyptian Myths and Mysteries, 9/2-14, 1908
- The Balance in the World and Man, 11/20-22, 1914
- The Realm of Language, The Lost Unison between Speaking and Thinking, 7/17-18, 1915
- The Work of the Angels in Man's Astral Body, 10/9/1918
- Rosicrucian Esotericism, 1909
- Theosophy of the Rosicrucian, 1907
- Evil and the Future of Man
- Building Stones for an Understanding of the Mystery of Golgotha
- Three Streams in the Evolution of Mankind
- Mysteries of Light, of Space, and of the Earth, 15Dec1919
- A Picture of Earth-Evolution in the Future, 13May1921, GA204
- The Challenge of the Times, 11/29 – 12/8, 1918
- The Influences of Lucifer and Ahriman, 11/1-15, 1919
- The Mission of the Archangel Michael, 11/21-30, 1919
- The Reappearance of Christ in the Etheric
- The Boundaries of Natural Science, 9/27 – 10/3, 1920
- Life between Death and a New Birth as Image of the Future Jupiter, 10/21, 1921
- Michealmas and the Soul-Forces of Man, 9/27 – 10/1, 1923
- The Michael Mystery, 3/1925




EXTRA MATERIAL FOR FURTHER STUDY

What should we do? How will we know?

One answer:





What is a Machine?

From Philosophy of Spiritual Activity

- I construct a machine purposefully when I bring its parts into a relationship which they do not have by nature.
- The purposefulness of the arrangement consists then in the fact that I have incorporated the machine's way of working into it as its idea.
- **The machine has become thereby an object of perception with a corresponding idea.**
- The beings of nature are such entities as well.
 - Rudolf Steiner, *World Purpose and Life Purpose*, GA04



Helpful Intelligent Mechanized Beasts

- “Through this [**Pisces & Virgo**] one will achieve what in a certain sense loosens the mechanism of life from the human being but will in no way found any form of rulership and power of one group over another.
- The cosmic forces that are called forth from this direction will beget **strange machines** but only ones that will relieve the human being from work, because they will have within them a certain force of **intelligence**.
- A cosmically oriented spiritual science will have to concern itself so that all the great temptations that will emanate from these **mechanized beasts**, which man creates himself, will not exert a harmful influence upon the human being.”
 - *Reappearance of Christ in the Etheric*, Lecture 12

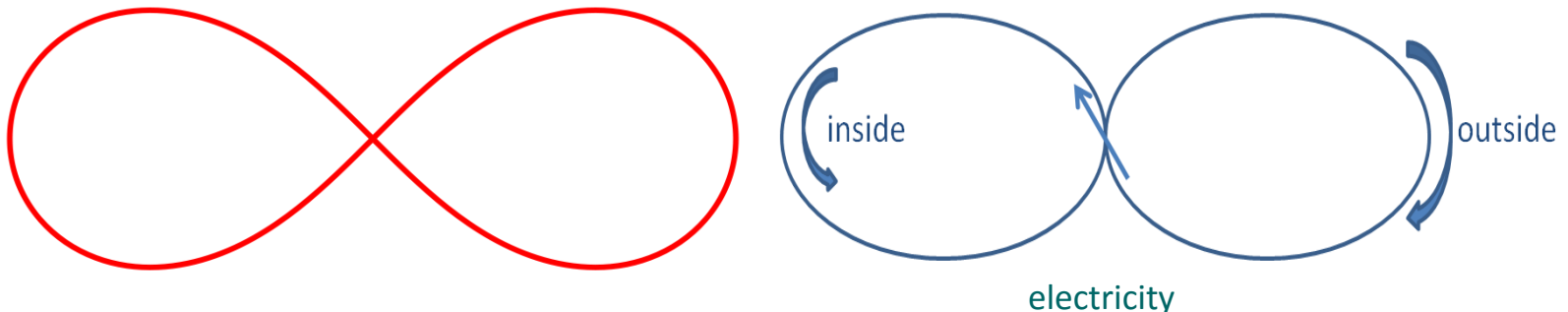


Unhelpful Intelligent Mechanized Beasts

- “By the circuitous route through **Gemini**, the dead will be led into human life in such a way that **human vibrations** will reverberate in a definite way, will **continue to vibrate** within the mechanical performance of the machine.
- The cosmos will bring motion to the machines through the circuitous route that I have just indicated.
- For that reason, it is important that nothing inappropriate be applied when these problems appear; **only elementary forces that are part of nature should be applied**. One will have to renounce introducing inappropriate forces into mechanical life. From the occult sphere one must refuse to harness human beings themselves into mechanical factory work.”
 - *Reappearance of Christ in the Etheric*, Lecture 12

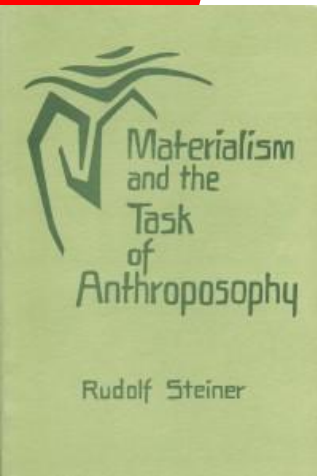
What Will Be Our Future World?

- **“What is now around you will become your *inner life*.**
 - “You will take into yourselves what is now the mineral kingdom and it will become part of your inner being; similarly the plant kingdom.
 - “What surrounds you in nature will become your inner being
- **“What we ourselves prepare and make ready in the world — that is what will constitute our future existence**
 - “The measure of what you yourself place into the world is the measure of the consciousness that the world will give back to you
- **“What we do with the mineral world, with the plant world, with the animal world, and with men, that we shall surely become”**
 - “If you found a charitable institution or have contributed something to its foundation, what you have contributed will become an integral part of you”
- R. Steiner, *The Atom as Coagulated Electricity*, GA93



Are We Becoming More Bound to the Body?

- “We come across the strange phenomenon that in ancient times the human being was ***bound more to his body than he is today***, but that he experienced in this body the spiritual aspect of the cosmos. Modern man has lost this experience in the body. ***The human being today is more spiritual*** but he has the most rarefied spirit; he lives in the intellect and can dwell in the spirit only from the time he awakens until he falls asleep. When he enters the spiritual world with his completely rarefied intellectual spirit, his consciousness is dimmed. [In his body, he is isolated from the world].
- *Why have we developed materialism? And why did ancient humanity not have materialism? The ancients did not have it because they dwelled within the matter of the body; modern men have materialism because they dwell only in the spirit, because they are completely free of a cosmic connection to their body. Materialism actually comes about because the human being became spiritual, but spiritual in a rarefied manner. ... People now have to work their way anew into the spiritual world.”*
 - Materialism and the Task of Anthroposophy, Lecture 9, 24 April 1921





Evolution of Vocation

- Earlier evolutionary periods required the abstract religions – now a more concrete spiritual knowledge is required
 - The very elemental beings that are created and released through the vocational labor of men must be fructified by the human soul with what it takes in from spiritual striving
 - Not the only mission of spiritual science but a mission related to the vocational life is needed
- World evolution demands that as professions become more specialized and mechanized, ***people feel the need for the opposite pole to become proportionately more intensely active in them***
 - This means that each human being should fill his soul with what brings him close to every other human being regardless of their vocation
 - What if my vocation is taken over by robots? (importance of Waldorf Ed)
- Old vocational impulses cannot be renewed and must be replaced
 - People will again perform their work but from different impulses
- New human ideal developed by spiritual science will show what a vocation may become when one understands how to observe the signs of the times in the right manner



How Does Conscious Human Vision Work?

(according to Steiner)

- Light enters each eye and thus the etheric body where the sentient soul is active
 - The sentient soul subconsciously bears within it what the consciousness soul then raises to consciousness as thought
 - What flows out of the eyes is **a thinking in the sentient soul**
- An astral element leaves the body, streams toward the object, and continues onward until opposed by another astral element (*recall discussion about soul and telephone*)
 - The conflict between these two astral elements engenders color, which we sense as pertaining to objects
 - Actually, the genesis of color occurs at the boundary of objects, where the astral element emanating from the human being collides with that of the object
- The two impressions gained in the sentient soul through mental effort, enter our consciousness where they **‘touch’**
 - Why the two optic nerves in the physical brain are crossed

R. Steiner, Berlin, October 25, 1909



The Voice of Technology (for the past 21+ years)

Also: [Will Robots Inherit the Earth?](#) (Scientific American, October 1994)

- “The **body**, this mass of biomolecules, is a **machine** that acts according to a set of specifiable rules... We are machines, as are our spouses, our children, and our dogs... I believe myself and my children all to be mere machines.” [Rod Brooks, Director of CS-AIL, MIT.] – *Thus, I am a machine*
- “The **neural code** is the **software** whereby the brain transforms raw sensory data into perceptions, memories, decisions, and meanings.” [John Horgan Science Writer and Author of *Rational Mysticism*]
- “The more we learn about our brains, the more ways we will find to **improve** them. ...With further advances, **no part of the brain will be out of bounds for attaching new accessories**. In the end, we will find ways to **replace every part of the body and brain – and thus repair all the defects and flaws** that make our lives so brief. Needless to say, in doing so, we'll be making ourselves into machines.” [Marvin Minsky, Director of MIT Media Lab]

The Voice of Religion

- “your **whole** spirit and soul and body be preserved blameless at the coming of our lord Christ-Jesus” – *1 Thessalonians 5:23*



Minsky: on Soul and Spirit

- “Many thinkers firmly maintain that machines will never have thoughts like ours, because no matter how we build them, they'll always lack some vital ingredient
- They call this essence by various names--like sentience, consciousness, spirit, or soul. Philosophers write entire books to prove that, because of this deficiency, machines can never feel or understand the sorts of things that people do
- However, every proof in each of those books is flawed by assuming, in one way or another, the thing that it purports to prove--**the existence of some magical [divine] spark that has no detectable properties**
- I have no patience with such arguments
- We should not be searching for any single missing [or invisible] part”

[The Emotion Machine](#), Simon and Schuster, 2006



Is the Spirit Just Maya (illusion)?

Trans-Spirit is a ‘**natural science**’ branch where “researchers seek to achieve a complete scientific understanding of spiritual phenomena and, based on that understanding, to develop techniques and technologies for **inducing** ‘spiritual experiences’ at will

Trans-Spirit aims to focus almost exclusively “on the ***physical mechanisms*** that predispose human beings to believe and behave according to religious and spiritual norms.”

Trans-Spirit: Religion, Spirituality and Transhumanism, Journal of Evolution and Technology, 2005 Vol. 14 pgs 39-53, Michael LaTorra, New Mexico State University

Kurzweil's Singularity (A Movie)



- GNR to make a “better” life and world
- “Humanity is fast approaching an era in which our intelligence will become increasingly *merged with computers* and trillions of times more powerful”
 - “Live long enough to live forever”
- “This will be the dawning of a new civilization, enabling us to *transcend our biological limitations*”
- “Boundaries blur between *human & machine, real & virtual*”
- “Human aging and illness are reversed, world hunger and poverty are solved, and we **cure death**”



Life After the Singularity

- “The bulk of our *experiences will shift* from real reality to virtual reality” (see current issue of *Time*)
 - What becomes of our biological body?
- Most of the **intelligence of our civilization** will ultimately be *nonbiological*, which by the end of this century will be trillions of trillions of times more powerful than human intelligence
 - However, this does not imply the end of biological beings, even if thrown from its perch of evolutionary superiority [Kurzweil expects the rise of hybrid humans]
 - Moreover, it is important to note that the nonbiological forms will be derivative of our biological design
 - **“In other words, our civilization will remain human, indeed in many ways more exemplary of what we regard as human than it is today, although our understanding of the term will move beyond its strictly biological origins.”**

➤ *Ray Kurzweil*

Cyber-Life as an Avatar

- Most business conducted online in cyber space
 - Much of social life will too
- Body health? Avatar health?
- Which reality preferred?
 - Parents restricting kids
 - Love for another's avatar?
- Multiple different avatars
 - Personalities, temperament
 - Sex (transgender)
 - Age
 - Skills, knowledge
 - Sold on a virtual market?
 - Useful for soul development?
- Post-Infertility, Avatar to help Jupiter-humans?

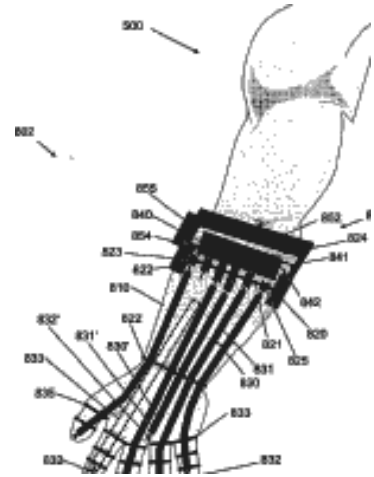


Robotic Arms for Humans

<http://www.youtube.com/watch?v=ppILwXwsMng>

December 2, 2009

- European scientists say they successfully connected a robotic hand to a man who had lost an arm allowing him to feel sensations in the artificial hand and control it with his mind
- The experiment lasted a month
- Amputee was *able to make complex movements using his mind* to control a biomechanic hand connected to his nervous system
- Wiggle the robotic fingers and make movements





Past and Future Form of Man

- In the beginning was the Word
 - Through Him (It) all things became
- Animals “precipitated out”
- Plants “precipitated out” from an earlier stage
- Lifeless mineral kingdom as precipitant of the living
- What other forms did Man have in the past?
 - Atlantis (Races, multiple forms)
 - Lemuria (Jellyfish-like, stretchable)
 - Old Moon, etc.
- What new forms will Man have in the future?
 - 6th + 7th Post-Atlantean
 - Sixth and Seventh Epochs (*then on to Jupiter*)



Mankind's Continued Becoming

- In the beginning, form was given to all by the Gods (Elohim)
 - 5th Epoch: Man given power to give form for **minerals**
 - 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 for a future world
 - So We **Must** Transform the Earth
 - Into a **temple of truth, beauty, and goodness**
 - **Future:**
 - Man transforms the **plants**
 - Man will be able to create and give shape to plant-life
 - Man transforms the **animal kingdom**
 - Man will give form and have power over animal life
 - And at a still higher stage, he will be able to reproduce his like by an act of **conscious will (love)** – a resounding of the power of the Logos
- In times to come, the physical body will disappear; man and the Earth will live as astral forms Rudolf Steiner, *An Esoteric Cosmology*, lecture XV, GA94
- Gods allow Man to delve into sub-nature as Jupiter preparation
 - But for health, we must be balanced with super-nature



Use of Illness for the Good

- Whenever there are illnesses producing tumors or carcinoma, or else illnesses of the metabolism, such as diabetes, Ahriman has won out over Lucifer
- Illness is, in very many cases, the sole means left to the good Powers, to rescue one from the fangs of Ahriman
- – Steiner, *Man's Life on Earth and in the Spiritual Worlds*, Lecture 5, 16Nov1922



John Scotus Erigena

- Father: existence
- Son: wisdom
- Holy Spirit: life

Dionsius the Aeropagite

- Uncreated – created
- Uncreating – creating

The Human Being

- Is as a mineral being
- Lives and thrives as plant
- Feels as animal
- Judges and draws conclusions as human being
- Perceives as angel
- Intuits as archangel

Pg. 281-282, MTA



The Human Double

- Two goats
 1. Sacrificial
 2. Scapegoat
- What happens when you approach death?
- When you approach your holy of the holies?
 1. What does Parzifal do before entering the Grail Castle?



The Machine-Planet: Our future?

by Ingo Hoppe

- *Star Wars* director, George Lucas, is well versed in Rudolf Steiner

The 'Death-Star'

- Whether in medicine or in robot-guided automobile production, whether in the entertainment industry or in daily life, everywhere the machine grows increasingly more dominant. Connect up with cables and networks as many areas of life as possible, with the greatest possible speed and thoroughness, and computerise them totally. The Earth, encircled by satellites in ever greater numbers, becomes ever more tightly enwoven into the world-wide telecom and computer networks.
- Huge cities are constantly expanding, entire countries are transformed into deserts by industry, and cultural landscapes that have evolved over many centuries are criss-crossed by eight-lane highways, cell phone and television towers. And now, with gene-technology, living nature is also to be forced into the straight-jacket of mechanistic manipulation. If this development is thought through to the end, and if one assumes that it is the only developmental tendency of mankind, then it is plain to see what its final consequence would be: the environmental destruction of living nature in favor of the total mechanization of all aspects of life.



Where Do We Find These Jupiter-Men?

- These sub-human beings' character consists of an impulse which strongly coincides with the **human power of will**
 - They now **appear from below** as beings produced in Ahriman's realm
 - They play into where we are most asleep – our will
 - **Ahrimanic influences act through those with obscured consciousnesses**
- “as long as one does not take into consideration these forces as forces **objectively existing in the world** just as one takes into consideration what today is called magnetism, electricity, and so forth, one will not gain an insight into human nature”
 - Today's natural science does not contain man, but merely the physical body

The Mission of the Archangel Michael, V, The Michael Deed and the Michael Influence as Counter-pole of the Ahrimanic Influence, November 29, 1919

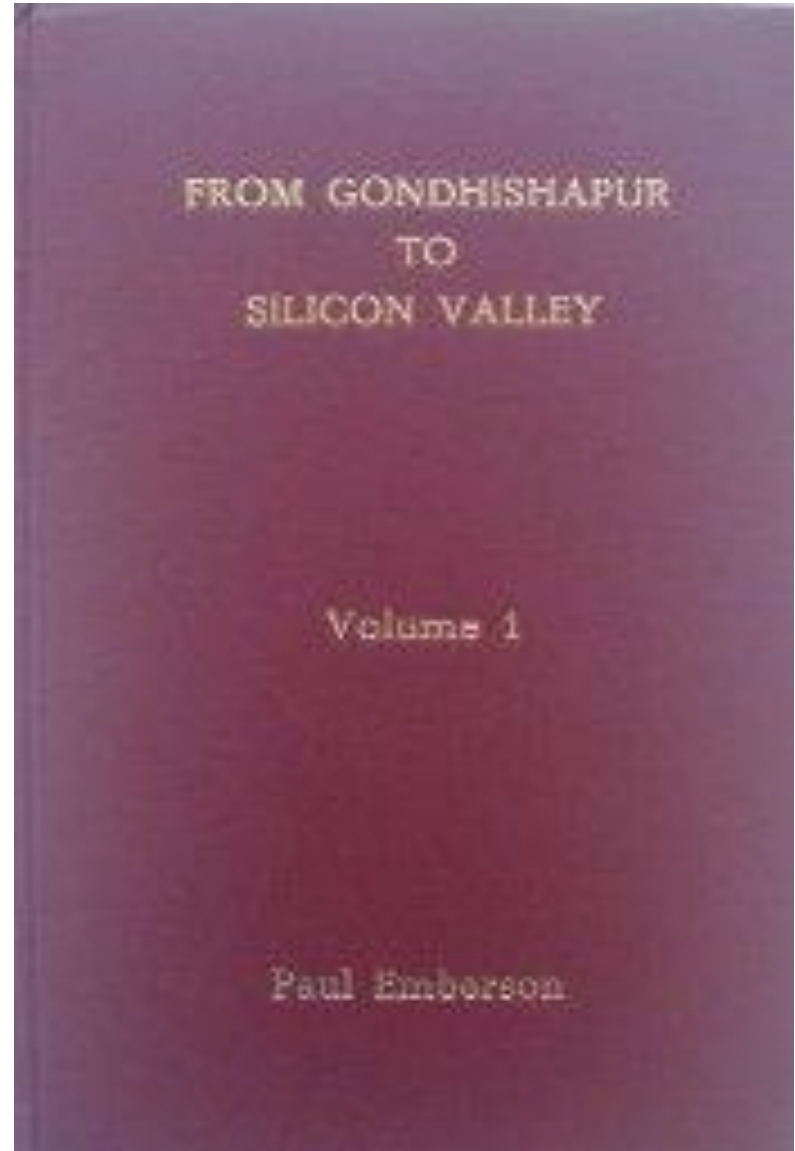


Constructing Jupiter

- “We may foresee an age when the whole face of the Earth — which at the beginning was the work of the Gods — will have received the stamp imparted by the hand of man.
 - “In the beginning, form was given to all created things by the Gods.
 - “This power of giving form has passed from the Gods to men, in so far as the mineral kingdom is concerned.
- “In ancient traditions it was taught that man must accomplish the task of transforming the Earth in fulfillment of a threefold goal, namely the realization of **truth, beauty, goodness (strength)**.
 - “It is for man to make the Earth into a temple of truth, beauty and goodness. And then, those who come after him will look upon his work as we now look upon the mineral world which came forth from the hands of the Gods.
- “The Gods 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.
- Rudolf Steiner, *An Esoteric Cosmology*, lecture XV, GA94

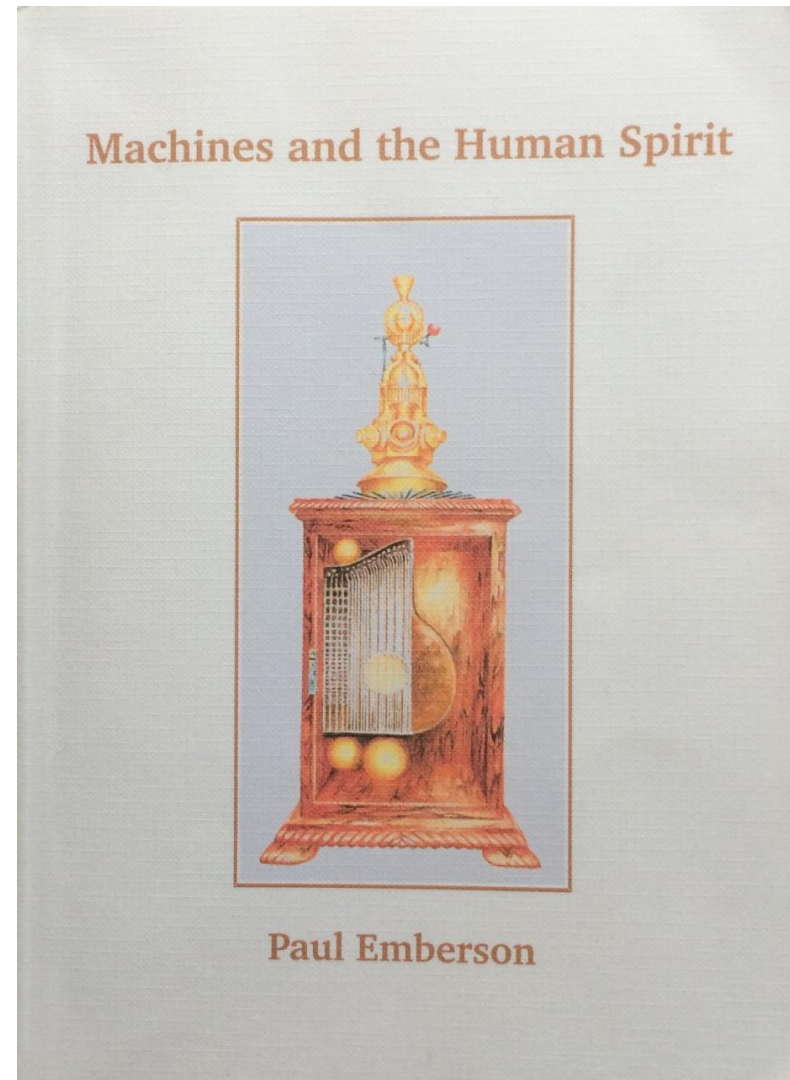
One Perspective

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



Moral Technology

- “Introduce life into things he makes”
- “Whoever is doing this at the laboratory bench will have to be capable of drawing out of himself – let us call them the oscillations of his etheric body – and carrying them over into that which is to receive life”
- Knowledge of how to do this is guarded by the White Lodge and will only be released when men have learned the secret of sacramentalism”





Spirits of Birth and Death

- All progress takes this course: wherever what has been created falls into ruin, we know that out of that ruin new life will always blossom -- *Leonardo da Vinci, His Spiritual and Intellectual Greatness At the Turning Point of the New Age*, Rudolf Steiner, Berlin, February 13, 1913, GA 62



Modern Technology and the Role of Evil

- Wherever electricity is used, there is demon magic
 - Demon magic signifies progress – we should not oppose progress – R. Steiner, *Karma of Vocation*, lecture 9, GA 172
- In the fifth post-Atlantean epoch illusion, Maya itself, will be seized upon by Evil. It will all be permeated by cleverness, intelligence
- The human being can only come to **spiritual freedom** by growing strong against the resistance provided by evil
- Human beings will have to accustom themselves to regard the inrush of the forces of Evil as an inrush of very laws of Nature
 - We will learn to know them and what lives and moves in the very depths of things
- We must not regard Evil from the outset as one would, who in the fullness of his egoism merely wanted to get away, to flee from it
 - We cannot do so but we must penetrate it with consciousness; we must learn to know it — really learn to know it
- Above all, in our time, already a force is preparing in the realm of human beings a force which tends to create illusions that are harmful and destructive – R. Steiner, *The Problem of Faust*, lecture 6, 4Nov17

Similar Perspective

- “Why Being a Google or Facebook User Makes You an Investor in the End of Humanity!”
- “This book might manage to reach the most intimate core of your humanness”
- *Update:* Liviu proposes in essay new software: Human-Avatar
 - Social media like Facebook
 - With more emotions than “like”

Beware of our antipathies and sympathies





Are Materialists Doomed?

- “I shall not concern myself with **what** [the materialistic scientist] says, but with the way [**how**] he thinks. If we can do that, something remarkable comes to light. We see that the kind of thinking those persons have developed is the germ of a very far-reaching spirituality.
- “The [materialist’s] thoughts are so tenuous that the man must exert a tremendous spirituality to think at all and prevent his thoughts from sinking down and being laid hold of by the merely material element of existence.
- “Vigorous effort of the spirit is necessary to sustain modern scientific thinking ... and good preparation for rising to spiritual things – **good preparation for entrance into the spiritual world – next incarnation** [Haeckel] **strong spirituality**”
- Rudolf Steiner, *How Can Mankind Find the Christ Again?*, lecture 6, 29 Dec 1918



Electricity and Vibratory Physics

- Thinking – Electricity
- Thinking – Light
- Living Thinking
- Sympathetic Vibratory Physics



Spiritual Science's Perspective

- Light as consciousness
- Electricity as light in sub-nature
- As we penetrate into sub-nature, so must we in proportion rise into super-nature
- We must cultivate a science of the levels above and below the mere physical



Electricity as the Bearer of Evil

- “The good and evil forces in man could to a great extent influence the health and illness of other people, and consequently also birth and death. There was a connection between the actions of an Atlantean and the natural course of birth and death.
- During the post-Atlantean age, in the 4th epoch of culture of the post-Atlantean age, this problem of birth and death was more connected with the human soul. But during our own epoch, the 5th post-Atlantean epoch, people will have to struggle with evil in the same elemental way in which they struggled with birth and death during the Atlantean age; particularly through the control of the different forces of Nature, the impulses that lead to evil will send their influences into the world in an immense, gigantic form. And the opposite forces, the forces of good, will have to grow out of the opposition to evil, and man will have to draw the strength for this opposition out of spiritual sources. This will take place above all during the 5th epoch, **when the exploitation of electric forces**, which will assume quite different dimensions from those which they have assumed so far, will enable man to **spread evil over the earth**, and **evil will invade the earth by coming in an immediate way out of the forces of electricity.**”
- *The Overcoming of Evil*, R. Steiner, Dornach, November 4, 1917, GA 273



Is Electricity Evil?

- During the 5th post-Atlantean epoch, people will have to struggle with evil in the same elemental way in which they struggled with birth and death during the Atlantean age
- Particularly through the control of the different forces of Nature, the impulses that lead to evil will send their influences into the world in an immense, gigantic form
- The forces of good will have to *grow out* of the opposition to evil, and man will have to draw the strength for this opposition out of spiritual sources
- This will take place above all during the 5th epoch, **when the exploitation of electric forces**, which will assume quite different dimensions from those which they have assumed so far, will enable man to **spread evil over the earth**, and **evil will invade the earth by coming in an immediate way out of the forces of electricity.**
- *The Overcoming of Evil*, R. Steiner, Dornach, November 4, 1917, GA 273



Evolution and the Role of Evil

- Just as man has wrested himself from the animal so will he wrest himself from evil
 - But never yet has he passed through a crisis as severe as that of the present age
- The evil and the good are still within man just as in days of yore the animals were within him
- Aim of Manicheism is to sublimate men to be redeemers
- The Master must be the servant of all
- True morality flows from an understanding of the mighty laws of the universe
- R. Steiner, *An Esoteric Cosmology*, The Mission Of Manicheism, GA094



Manes and Dealing with Evil

- Fifth Root Race: guidance of the soul from the Father withdraws
 - In esotericism: the Mother Isis is the soul who conceives or receives
 - The Father is the Revealer, Instructor, or Osiris as inpouring Divine
- Such a soul becomes the Widow
 - Manes designates himself as the Widow's Son
 - He prepares the soul to become independent
 - Today the soul becomes completely independent of the Father
- Manes inspires the Divine-Spiritual Light of the soul
 - To rebel against everything not from out of the soul itself
 - 'You must strip off everything that is external revelation, everything that external authority has transmitted to you. Then you must become ripe to behold your own soul.'
- Manes supports himself on the inner spiritual light of the soul
- Faust Saga:
 - Faust says, exoterically, "We will only accept the teachings in freedom"
 - Luther (authority) throws an inkpot at the Devil's head; Faust enters into a pact with Evil



Light and Dark, Life and Form

- Legend: From the Kingdom of Light a spark is sent into the Kingdom of Darkness in order that through itself the Darkness may be redeemed, in order that Evil may be overcome through gentleness
- Confluence of Life and Form: cooperation of Good and Evil
- Life becomes form through finding opposition
 - Life hurries from form to form, fashioning the leaf, then blossom, then seed out of which a new form will come
 - No forms if Life were not obstructed and arrested in its forces which stream out in every direction
 - Form grows precisely out of that which at higher stages appears as fetters
- Christianity has both Form and Life
 - What lived in the Roman State, Empire, surrendered its Life to the Form of the Church
 - The old offices of the state were continued further through the Bishops and Presbyters
- What was formerly Life, later becomes Form for a new Life
 - The new Life is poured into the old Form



Manes as the Paraclete

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

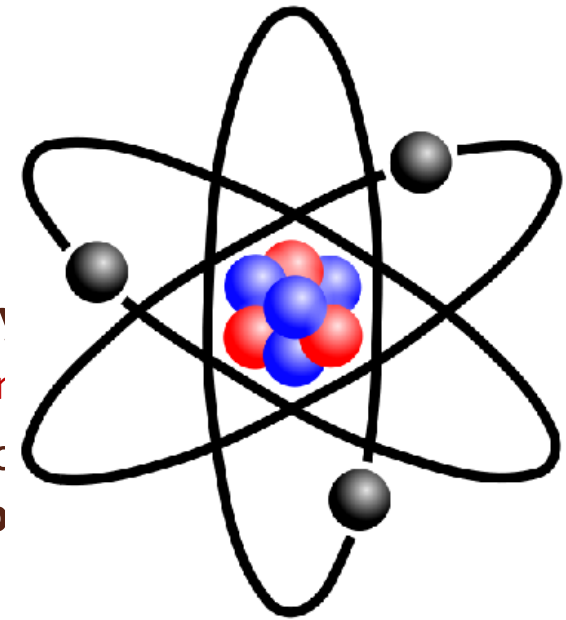


Fulfillment of Cultural Epochs

- “The third epoch reappears in the fifth, in order to permeate human souls with what the fourth epoch [Egypto-Chaldean] has brought as something completely new
- Something similar will be the case with the sixth epoch in regard to the second and the seventh in regard to the first, the ancient Indian epoch”
 - *Occult Science, The Present And Future Of Cosmic And Human Evolution*

What is the Atom?

- The atom is nothing but coagulated electricity
 - Thought itself is composed of the same substance
- **Before** the end of the fifth epoch of culture, science reached the stage where man will be able to produce an atom itself
- When the similarity of substance between the thought and the atom is once comprehended, the way to get hold of the forces contained in the atom will soon be discovered and then nothing will be inaccessible to certain methods of working
- It is impossible to conceive what might happen in such circumstances if mankind has not, by then, reached selflessness
- The attainment of selflessness alone will enable humanity to be kept from the brink of destruction



Forging a Balanced Future





Christ Impulse Between Intellect and Will

- [Earlier we had the] downfall of Luciferic beings; today we have a rise of Ahrimanic beings.
- The former beings influence the Luciferic power of thought, the latter the human power of will; we have to recognize the arrival of these latter beings within the evolution of mankind. We have to realize that these beings arrive and that we have to reckon with a conception of nature which, to be sure, for the time being only includes man; for the animal kingdom will only be included later on in the Earth period. Upon the animal these beings have no influences as yet.
- We shall not comprehend the human race without taking these beings into consideration. And these beings, who are, as it were, pushed from behind, for behind them there stands the Ahrimanic power which endows them with their strong will power, which pours into them their directive forces, — these beings who as such are sub-human beings are controlled in their totality by higher Ahrimanic spirits and thus contain something which far surpasses their own nature and being.
- Therefore they show something in their appearance which, if it takes the human being captive, acts much more strongly, very much more strongly than that which the weak human being can control today, if he does not strengthen it through the spirit.
- What is the aim of this host? Well, my dear friends, just as the hosts which Michael has pushed down have aimed at human illumination, at human permeation with reason, so these hosts aim at a certain permeation of human willing. And what do they want? They burrow, as it were, in the deepest stratum of consciousness in which the human being is still asleep today in his waking state. Man does not notice how these beings enter his soul and also his body. Here they suck in, with their power of attraction, everything that has remained Luciferic, that has not become Christ-permeated. This they can reach: this they can take possession of.
- My dear friends, our time raises these problems for us. We must no longer pass by these things. They are not convenient. For it has become convenient for human beings to think differently, that is, not to think at all about man, not to take him into consideration at all. And it is not without danger to speak about these things in complete truth at a time when many people do not at all love the sense for truth, quite apart from the fact that false sentimentality might find these things a psychic cruelty.
- The result of the comprehension of these things, however, will be a thorough grasp of the necessity of the Christ impulse. One must recognize where the Christ impulse is lacking. Yesterday we showed that in the middle stratum of consciousness the Christ impulse takes hold of the middle stratum of consciousness, if man really permeates himself with the Christ, then these Ahrimanic powers cannot penetrate through this middle stratum, upward, and they cannot, with their spiritual forces, pull down the intellectual forces. 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



Striving for Truth

Evolving From Science to Engineering

- “It no longer matters if we understand it; what matters is if the model can accurately predict all outcomes.”
- Richard Feynman: It works “for all practical purposes”
- “It's okay to have theories that assign tiny probabilities to outcomes, so long as no other theory does better”
 - Eliezer Yudkowsky, [Machine Intelligence Research Institute](#)
- Rudolf Steiner: “we are striving for a connection of the ‘I’ with the truth”
- John 8:32 “ye shall know the truth, and the truth shall set you free”



Thinking and Consciousness

- Does consciousness require a brain?
 - Near-death experiences
 - Minimal brain yet high IQ
- Thinking after death – thinking before birth?
 - Was there thinking before birth? Yes, and it was more alive!
 - Body as the tomb of our living thinking
 - AI as a further death of thinking
 - AI using electricity (sub-nature) : what is xl in super-nature?
 - Future (healthy) human is to expand with balance into both (see *Michael Mystery*, Chpt 29, From Nature to Sub-Nature, March, 1925)
 - “There could be no color sensations without physical eyes, and there could be no intuitions without the higher thinking of the spirit self. As little as sensation creates the plant in which color appears does intuition create the spiritual realities about which it is merely giving knowledge.” – Steiner, *Theosophy*, The Essential Nature of Man
- What is the Human Being?
 - St. Paul (and mystics) claim: soma, psyche, and pneuma



Thinking Within One's Etheric Body

- This is the supersensible body of the human being which is active throughout our whole life from birth, or one should say from conception, right up to our physical death. It is also the bearer of our memories, and as a supersensible being it is linked to a supersensible world that is external to it. Thus our physical life with its ordinary consciousness is like an island. Around this island and imbuing it lies what links our body of formative forces with the supersensible world by which this body, in its turn, is surrounded. We then see that our world of inner pictures and thoughts, just as I have described it, while being connected to our physical brain that provides it with a firm ground to stand on, is in fact carried by the body of formative forces. This is the **bearer** of our thinking, and our thoughts are formed within this body of formative forces, so that in the activity of thinking the human being lives within this body of formative forces. -- *Secret Brotherhoods and the Mystery of the Human Double*, GA178 [activity by soul body on etheric body]



The Coming Higher State of Consciousness

- The conceptions of the present state of consciousness are shadowy and pale in comparison with the colorful and sounding objects of the external world. Man therefore speaks of conceptions as of something which is “not real.” A “mere thought” — is contrasted with an object or a being which is “real” because it can be perceived through the senses. But conceptions and thoughts bear within themselves the potentiality of again becoming real and image-like. If man speaks of the conception “red” today without having a red object before him, then this conception is, as it were, only a shadow image of real “redness.” Later, man will reach the point where he can not only let the shadowy conception of the “red” arise in his soul, but where, when he thinks “red,” “red” will actually be before him. He will be able to create images, not merely conceptions.
- Thereby something will be achieved by him similar to that which already existed for the Moon consciousness. But the images will not ebb and flow in him like dreams; instead he will evoke them in full self-consciousness, as he does today's conceptions. The thought of a color will be the color itself; the conception of a sound will be the sound itself, and so forth. In the future, a world of images will flow and ebb in the soul of man through his own power, whereas during the Moon existence such a world of images filled him without his acting.
- In the meantime the spatial character of the objective external world will not disappear. The color which arises together with the conception of color will not be merely an image in the soul but will appear in outside space. The consequence of this will be that man will be able to perceive beings and objects of a higher kind than those of his present environment. These are objects and beings which are of a more delicate spiritual and soul nature, hence they do not clothe themselves in the objective colors which are perceptible to the present physical sense organs; however, these are objects and beings which will reveal themselves through the more delicate spiritual and mental colors and sounds which the man of the future will be able to create from his soul. — R. Steiner, *Cosmic Memory*, Earth and its Future



Evolving Human Consciousness

- “Moreover, through your having changed the atom, through the fact that you have united the spirit in you with the mineral world, a permanent stamp has been made **upon the general consciousness of mankind**
- “Everything that is performed **without regard to self**, that is connected with the **interests of another**, helps to intensify and to **strengthen our consciousness in 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*

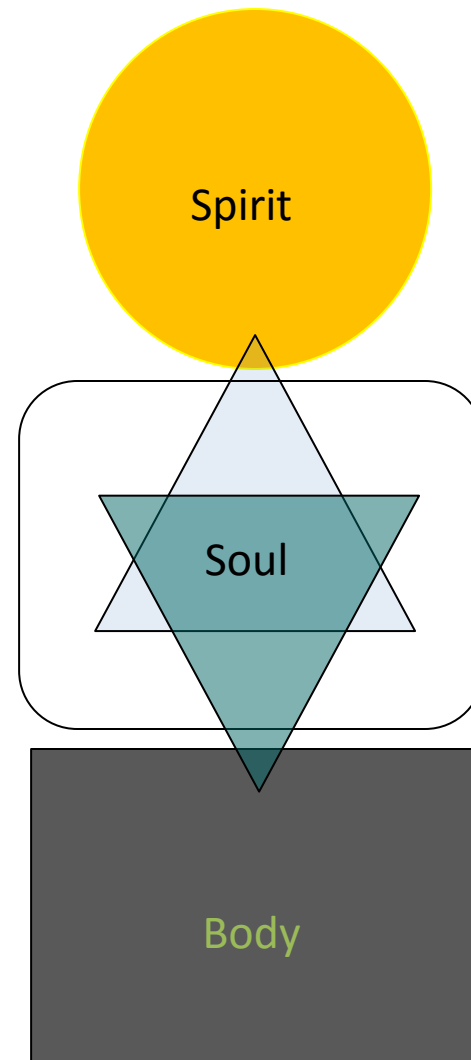


Becoming Awake

- In the 9th century, the Ego was placed in the Intellectual Soul
 - “It was in the intellectual soul , the transformed part of the ether-body, that Ahriman established his footing. From there he lures man to false conceptions and judgments of material things, leads him to error, to sin, to lying — to everything that originates in the intellectual soul. Ahriman seeks to make the intellect, given to mankind, similar to his own: a cold, soulless cosmic impulse equating prosperity with goodness. In every illusion that matter is the sole reality, we must perceive the whispered promptings of Ahriman”
 - *The Deed of Christ and the Opposing Spiritual Powers*, Rudolf Steiner
- Between 15th and the 19th centuries, the Intellect was greatly developed
- Full of creative power then but such creative power wanes as decadence sets in
 - “In order to fructify the developed intellect, a stream of spirituality from higher regions of world existence seeks entry into earthly life of mankind. Whether this will happen depends upon man opening his heart and soul to what thus seeks entry into the earthly from the spiritual world.” [Ibid]
 - Elemental beings seeking entry into the earthly today
 - Necessary for man not only to become conscious once more of the spiritual in all nature, but also to be able to perceive it (and Christ in the Etheric)
- Faithfulness to truth as antidote to Ahriman’s attack through materialism
 - Science today
 - Stops short of the truth
 - Satisfied with a predictive model
- Practice living rhythms rather than mechanical

Soul Today

- Goals of Materialism?
- Kali Yuga is over
- As a spiritual being, how do you affect change in your soul?
 - Do you allow for a change in attitude towards the body?
- Consciousness Soul – relationships to all things, to sp. beings
 - Know thyself as a feeling being

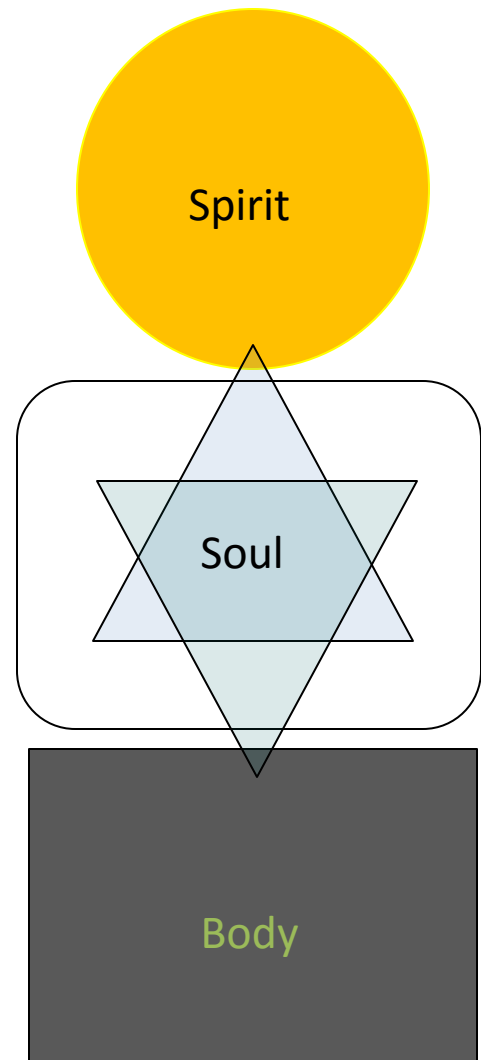


- Thinking
 - Universal
- Feeling
 - Group
- Willing
 - Individual

Soul As Mediator

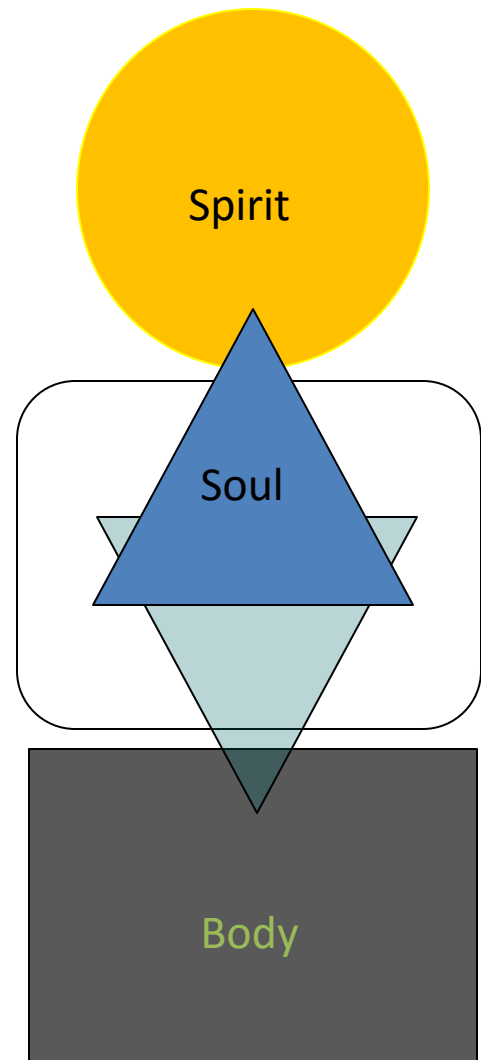
Aristotle:

- Two parts of the soul
 1. One is the spiritual part, “Active Reason” intellection in the spiritual life
 - This “nous” is immaterial and immortal
 2. Other tied to physical body: apprehends sense-perceptions
 - Arises as a necessary by-product of man's parental inheritance



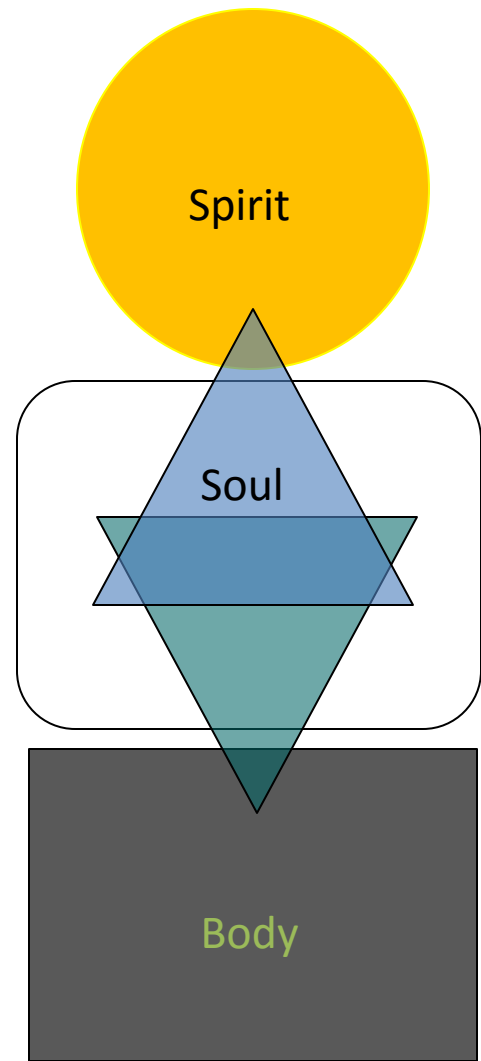
Soul Over the Ages

- Ancient Persia



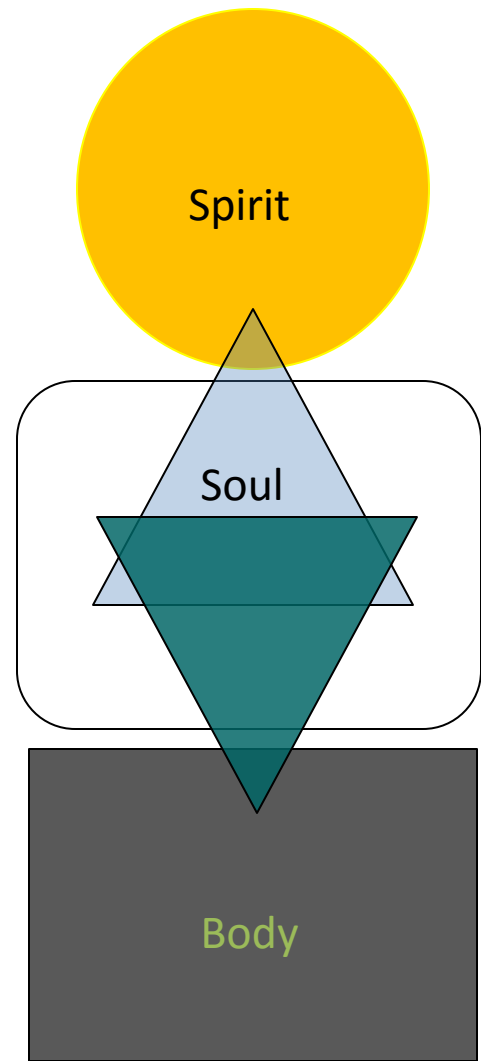
Soul Over the Ages

- Egyptian - Sumerian



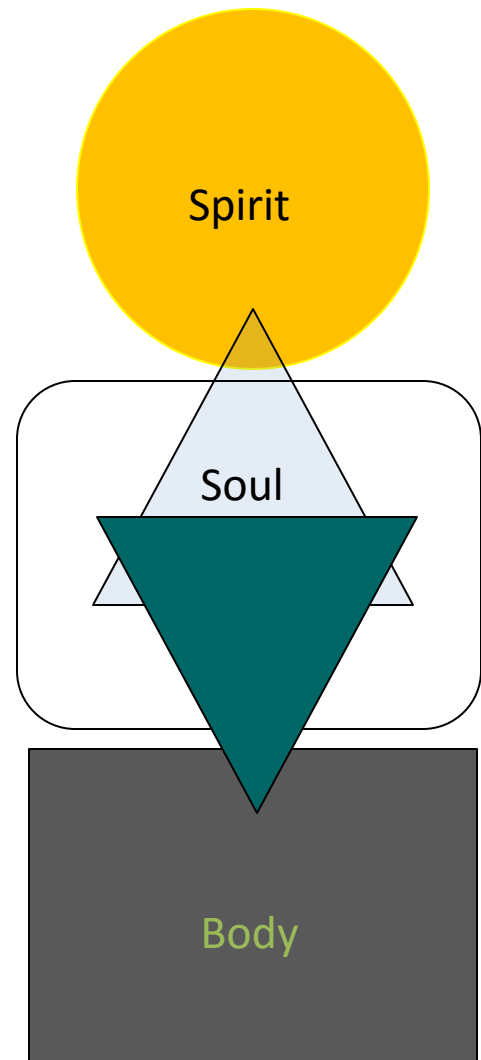
Soul Over the Ages

- Greco-Roman



Soul Today

- Goals of Materialism met?
- Kali Yuga is over
- As a spiritual being, how do you affect the change in the soul?
- Do you allow for a change in attitude towards the body?





The New Freemasonry

- Manes to Cathars (& Knights Templar) to Freemasons
- New life into old forms
- As the old spiritualized stone (matter) what will be new?
 - Sub-nature!
- Relationship of electricity to evil
 - Concept
 - Manes and Evil
 - Maitreya



“And No Stone Shall Be Left Unturned”

- “We are living now in the epoch of evolution that may be called the **Mineral Epoch**; and our task is to permeate this mineral world through and through with the spirit within us
- “What you have done to the mineral world passes into the very atoms and does not vanish without a trace. Every such atom bears a trace of your spirit and will carry this trace with it
- “Whether an atom has at some time been in a machine, or has not been in a machine, is not a matter of indifference
- The atom itself has undergone change as a result of having once been in a machine, and this change that you have wrought in the atom will never again be lost to it”
 - *The Atom as Coagulated Electricity, GA 93*

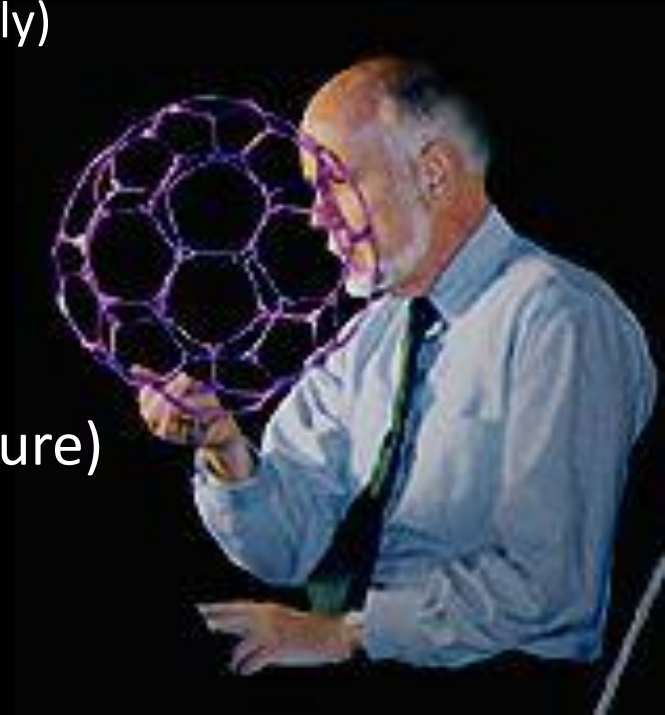
Becoming New Masons of Sub-Nature

“Nanotechnology is the builder’s final frontier.”

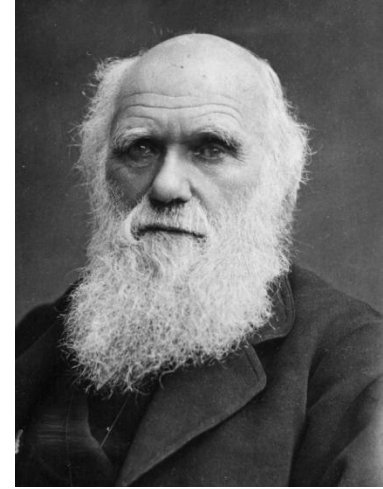
Richard Smalley

1996 Nobel Laureate in Chemistry, Rice University

- Temple Legend: Hiram and Solomon
 - One (Solomon) can envision (heavenly)
 - One (Hiram) can build (earthly)
- Masonic orders
 - Mystery knowledge, character
- From masons of stone
- To masons of technology (sub-nature)
 - New mysteries



Charles Darwin (1809-1882)

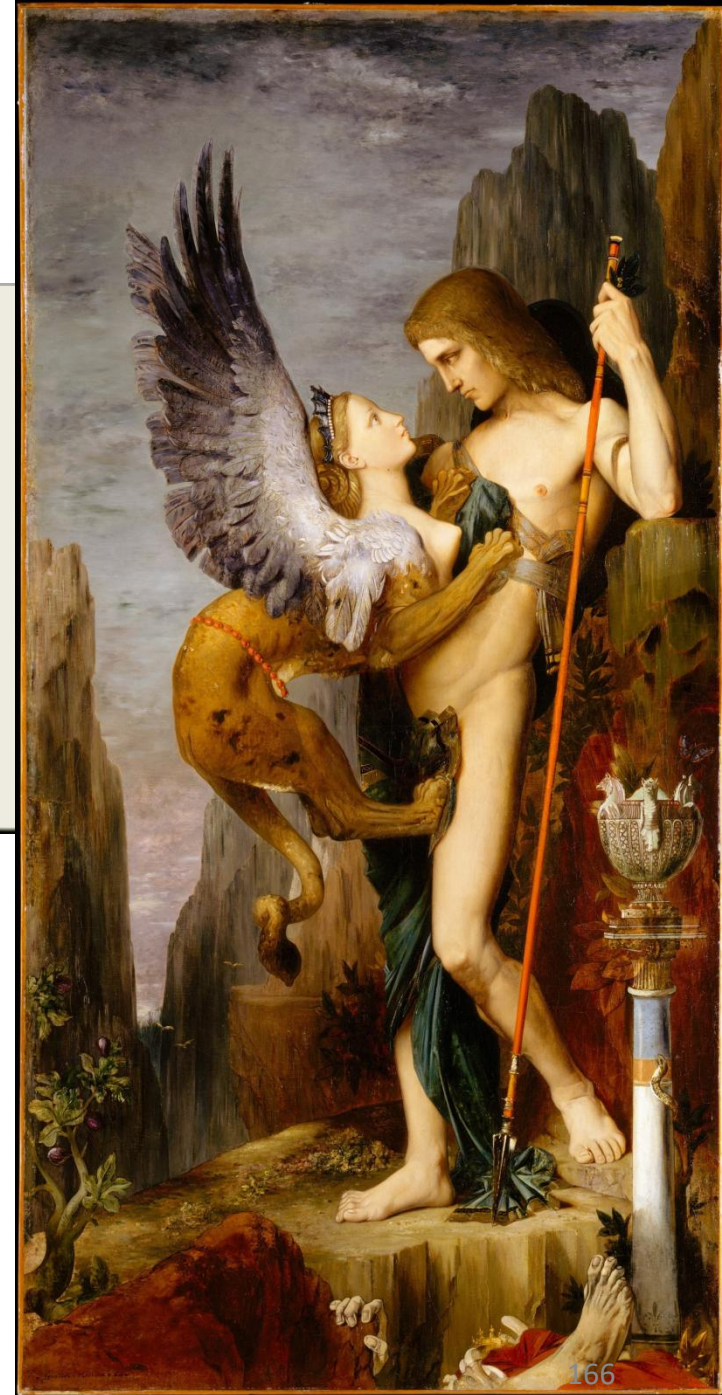


- *Origin of Species, The Descent of Man*
 - Chapter “The Races of Man”, 1871
- “At some future period not very distant as measured by centuries, the civilised races of man will almost certainly exterminate and replace the savage races throughout the world. At the same time the anthropomorphous apes...will no doubt be exterminated. The break between man and his nearest Allies will then be wider, for it will intervene between man in a more civilised state, as we may hope, even than the Caucasian, and some ape as low as the baboon, instead of as now between the Negro or Australian [aborigine] and the gorilla.” – *similar to carbon versus silicon human?*

Human Earthly Evolution



- Life from lifeless?
- Consciousness from matter?
- Fossil record, other interpretations
 - What were Centaurs?
- Oedipus: 4 morning, 2 mid, 3 evening
 - What is this future?



Greek Mythology: Prep for Our Times

- **Hephaestus**, Greek god; **Vulcan** Roman equivalent
 - Center of his cult was in Lemnos
 - Last Planetary condition (Earth – Jupiter – Venus – **Vulcan**)
- God of technology, blacksmiths, craftsmen, artisans, sculptors, metals, metallurgy, fire, and volcanoes
 - Served as the blacksmith of the gods
 - Hephaestus's symbols are a smith's hammer, an anvil and a pair of tongs, and sometimes an axe
- Son of Zeus and Hera (who throws him off Olympus after birth)
 - Hephaestus was lame giving him a grotesque appearance to Hera
 - Builds thrones for the gods, Hera's binds her (like velcro)
 - **Builds automatons** to go up to and down from Olympus
- Hephaestus, being the most unfaltering of the gods, was given Aphrodite's hand in marriage by Zeus in order to prevent conflict over her between the other gods (nerds get the girl, sort-of)
- Story of **Prometheus**, Epimetheus, and **Pandora**





Oedipus

- “An oracle prophesied to Laius of Thebes at his betrothal with Jocaste. A son would be born who would become his father's murderer and live in incest with his mother.
- Laius went ahead with the marriage but when the son was born, he pierced his heels and had him exposed on Mount Cithaeron where a shepherd found him. The shepherd's wife called him Oedipus on account of his pierced heels.
- The boy Oedipus grew up; his talents developed. At an early age his soul was beset by doubts concerning his descent. Then the Delphic Oracle pronounced “Avoid thy home-country; otherwise thou wilt become thy father's murderer and thy mother's husband.”
- He did not know who his father and his mother really were. He wandered from Corinth in order not to bring about disaster there by killing his father and marrying his mother.
- On the way to Thebes he met a chariot in which his father Laius was travelling with a companion. A conflict arose; he killed his father and continued on his way to Thebes.
- Before entering, he needed to solve the Riddle of the Sphinx.
- The Riddle of the Sphinx is the Riddle of Man and belonged to the evolutionary nexus of the fourth post-Atlantean age. Oedipus was one of those who knew. Far from replying to the Sphinx: “I am reluctant to unveil a higher secret”; he solved the secret.
- Something was thereby implanted in the fourth post-Atlantean epoch. It was an impulse that worked on and on, and in which Oedipus played an essential part.
- This deed reveals him as a characteristic Hero of the fourth post-Atlantean epoch.
- Now he went on to Thebes, married his mother, whom of course he did not hold to be his mother, and was comparatively happy — till a plague arose. At length it was the seer Tiresias who revealed the truth. Jocaste, suddenly knowing herself to be the wife of her son, killed herself by suffocation. Oedipus blinded himself and was driven away by his own sons.



FROM WHERE DO THE PICTURES OF THE FUTURE COME TO HUMANS?



Work of the Angels in Man's Astral Body

- “If men do not allow this to be achieved in the astral body while they are awake, the Angels would, in this case, endeavor to fulfill their aims through their sleeping bodies. Therefore what the Angels could not achieve, because in their waking life men slept through it, would be achieved with the help of the physical and etheric bodies of men during actual sleep. It is there that the Angels would seek forces required for the fulfillment of what could not be achieved through men in their wide-awake consciousness when the souls were within the etheric and physical bodies in the waking state. It would be achieved by means of the etheric and physical bodies in the sleeping state, when human beings who ought to be awake to what is going on were outside these bodies with their Ego and astral body.
- Here lies the great danger for the age of the Spiritual Soul. This is what might still happen if, before the beginning of the third millennium, men were to refuse to turn to the spiritual life. It might still happen that the aim of the Angels in their work would have to be achieved by means of the sleeping bodies of men — instead of through men wide-awake. The Angels might still be compelled to withdraw their whole work from the astral body and to submerge it in the etheric body in order to bring it to fulfillment. But then, in his real being, man would have no part in it. It would have to be performed in the etheric body while man himself was not there, just because if he were there in the waking state, he would obstruct it.”



Threefold Evolution of Sleeping Humanity

Sleep Path demands three new instincts

- Science will say it is a natural and inevitable development in evolution

1. Knowledge of the mystery of birth & conception and sexual life [Eugenics]

- Men become half devils through their unwholesome sexual instincts
- Deemed evidence of a particularly high development, of superhumanity
- Prevent unfolding brotherhood in any form whatever, even rebel against it
- This path involves changes affecting the Angels themselves

2. Instinctive knowledge of certain medicaments [Hygenics]

- Materialistic medicinal properties of certain substances and certain
- The harm will be called useful: a sick man will be called healthy, the treatment deemed pleasing
- Induce illness by particular substances and treatments – possible to bring about or not to bring about illnesses, entirely to suit egotistical purposes

3. Use of vibrations — unleash tremendous mechanical forces [Mechanical]

- Instinctively realize the possibility of exercising a certain spiritual guidance and control of the mechanistic principle
- But human egoism will find this of tremendous use and benefit
- Ugliness would be beauty and beauty, ugliness
- Nothing of this would be perceived because it would all be regarded as natural necessity, but it would denote an aberration from the path which, in the nature of humanity itself, is prescribed for man's essential being



True Spiritual Guidance for the Future

- The Spirits of Form are obliged to unfold in pictures of what they desire to achieve with us during Earth-evolution and beyond
 - And then, later on, the pictures become reality in a humanity transformed
- Through the Angels, the Spirits of Form are already now shaping these pictures in our astral body
- The Angels form pictures in man's astral body that are accessible to thinking that has become clairvoyant
 - The pictures are woven in accordance with quite definite impulses and principles
 - Forces for the future evolution of mankind are contained in them
- The aim of the Angels is to engender in the astral bodies of men such pictures as will bring about definite conditions in the social life of the future
 1. Brotherhood: No human being is to find peace in the enjoyment of happiness if others beside him are unhappy.
 - unification of the human race in rightly understood — this is to be the governing principle of the social conditions in physical existence.



Results from the Work of the Angels

1. Every human being shall see in each and all of his fellow-men a hidden divinity
 - Neither in theory nor in practice shall we look only at man's physical qualities, regarding him as a more highly developed animal, but we must confront every human being with the full realization that in him something is revealing itself from the divine foundations of the world, revealing itself through flesh and blood
 - To conceive man as a picture revealed from the spiritual world
 - every human being is made in the likeness of the Godhead
 - An aim of Church must be to render itself unnecessary on the physical plane
 - The bestowal on man of complete freedom in the religious life
 2. To reach the Spirit through thinking, to cross the abyss
 - Through thinking to experience the reality of the Spirit
- Spiritual Science for the spirit, freedom of religious life for the soul, brotherhood for the bodily life
 - All that is necessary is to raise our consciousness to a different level
 - Age of the Spiritual Soul: Man must gradually come to understand in his wide-awake consciousness
 - It is part of the process of becoming human



Threefold Truth Proclaimed by Angels

- Purely through the Spiritual Soul, purely through their conscious thinking, men must reach the point of actually *perceiving* what the Angels are doing to prepare the future of humanity
- A *threefold truth* will be revealed by the Angels
 1. *Through interest, see what the other man really is*
 2. *Freedom in the religious life*
 3. *Reach the Spirit through thinking*
- This “impending event confronts the ***will of man***”
 - Lucifer desires that there shall be goodness, spirituality, in man — but automatic goodness, automatic spirituality — without free will — remove from him the possibility of evil-doing
 - Ahriman intends to darken the consciousness that man is an image of the Godhead — to kill *the consciousness of his own spirituality*
- Angels will be able to say “He Whom ye seek is here indeed!”



Using Earth's Magnetism

- Introducing the Antichrist instead of the Christ have endeavored to exploit what could work especially through the most materialistic forces, yet working spiritually with these materialistic forces. Above all they strive to exploit electricity and especially the earth's magnetism to have influence over the entire earth. I have shown you how, in what I have called the human double, earthly forces arise.
- This mystery will be penetrated. It will be an **American mystery** to make use of the magnetism of the earth in its “doubleness,” to make use of the magnetism in North and South to send guiding forces that work spiritually across the earth. Look at the magnetic map of the earth and compare it with what I am now saying. Observe the course of the line where the magnetic needle swings to East and West and where it does not swing at all. (I can only give indications at this time.)
- From a certain celestial direction, spiritual beings are constantly at work. One need only put these spiritual beings at the service of earthly existence and, because these spiritual beings working in from the cosmos are able to transmit the mystery of the earth's magnetism, one can penetrate the mystery of the earth's magnetism and can bring about something very significant of a group-egotistical nature in relation to the three things: gold, health, and prolonging life. It will simply be a matter of mustering the doubtful courage for these things. This will certainly be done within certain circles!

Avatarness in the Future

- In Hinduism
 - Deliberate descent of a deity to Earth
 - Typically translated into English as
 - “incarnation” or “manifestation”
- Historically in Spiritual Science
 - Angels (and earlier arch-angels) joined human
- Today, Spiritual Science claims
 - Spiritual being can overshadow
 - Or speak/write through a human
 - Moments of dimmed consciousness
- Future, Spiritual Science asks
 - Will we offer our body to another for karma?
 - Will we, as the next angels, be able to ‘avatar’ a Jupiter-Human?





Attachment of a Second Being

“During the course of the Fifth Post-Atlantean epoch, 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. [*ignorance is bliss*]

“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.***”

Rudolf Steiner, *The Balance in the World and Man, Lucifer and Ahriman*, lecture 1, GA158

Note Similarity to Angel as a Second Being



In Him Was Life

- You cannot understand life if you restrict yourself to centric forces
- For the living, I must go to the 'ends of the world' to all the points at the periphery to see how their interplay unites within the living.
- Like the leap from Kinematics to Mechanics is the leap from lifeless to living – to the incalculatable – cosmic
- ONLY the man-made is exclusively lifeless
- Question: is theory of Gravity correct?

In Whom is Form?

- Elohim (Exusiai)
- Form in the material
- Form in the spiritual?



Love and Jupiter

- "Just as **wisdom was evolved** upon the Moon, in order that it might now be found in all things, so in like manner is **love evolving**
 - Love came into existence first in its lowest, its most sensuous form, during the Lemurian period
 - Love will become ever more and more spiritualized, until at last, when the Earth has reached the end of its evolution, the whole of existence will have become **pervaded with love as today it is pervaded with wisdom**
- The Beings who will wander about **upon Jupiter**, just as human Beings move about upon the Earth, will **find love exhaling** from all creatures, the love which they themselves, as Human Beings, will have placed there during their life upon the Earth
 - They will find love in everything just as we today find wisdom everywhere
 - Then human beings will develop love out of their own inner selves in the same way that they are now little by little evolving wisdom
 - **The great cosmic love that here upon the Earth is beginning its existence will then permeate all things.** *Rudolf Steiner, Gospel of St. John, Hamburg*
- **From Wisdom to Cosmic Love to The Father.** Manas to Buddhi to Atman



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

NY Times Report on Apple Watch

- The Watch became something like a natural extension of my body — a direct link, in a way that I've never felt before, from the digital world to my brain
- I glance now for a sec rather than fumbling for a minute
- The effect was so powerful that people who've previously commented on my addiction to my smartphone started noticing a change in my behavior
- My wife told me that I seemed to be getting lost in my phone less than in the past - she found that a blessing

