

# SPIRITUAL SCIENCE AND THE ROLE OF TECHNOLOGY IN EVOLUTION

Will Humans Become Supermen? Gods?



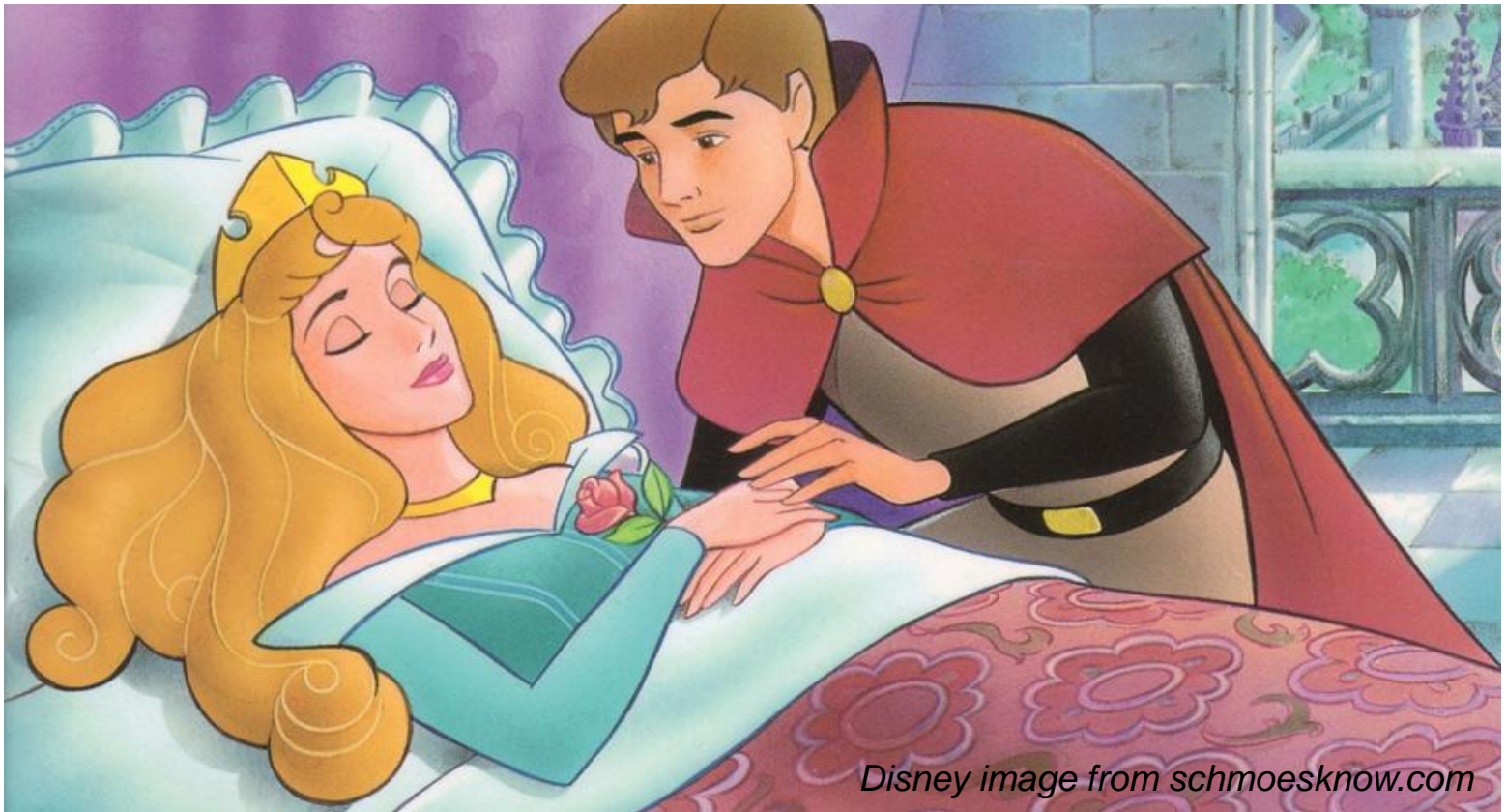
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**DEDICATION**



# THEMES

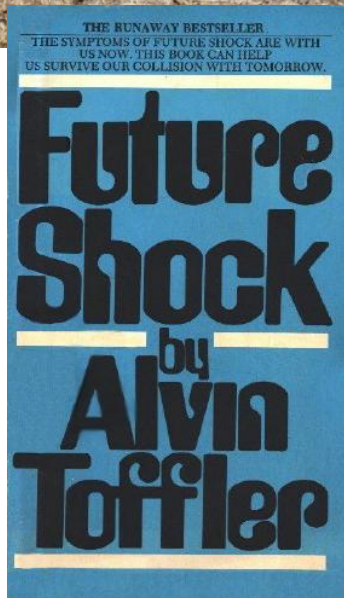
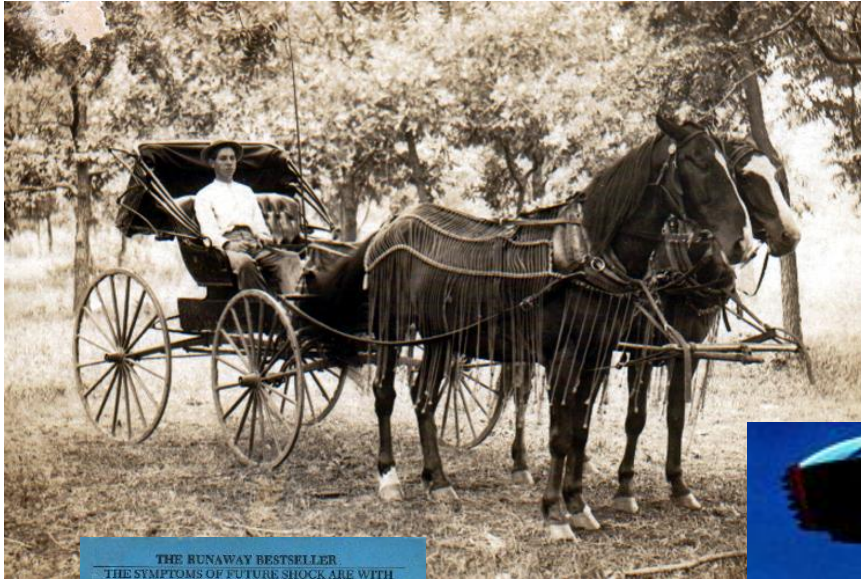
- Evolution
- Soul & Machine
- Artificial Intelligence
- The Western Path
- *Let's just jump in*



Briar  
Rose

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

# WHAT IS YOUR PICTURE OF THE FUTURE (2050 →)



1970



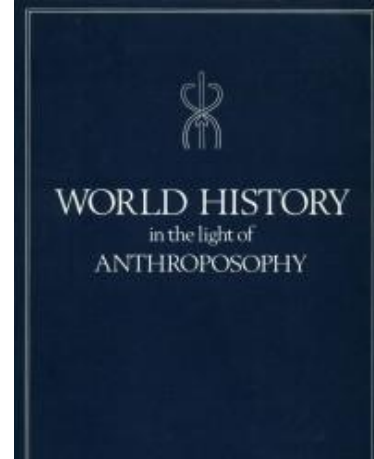


# NO GOING BACK – FORWARD ONLY

- “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 (emancipation)**
  - 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

# PAST HUMANS NOT LIKE TODAY



## 2000 BCE: Cruel conquests, enslavements

- Those with abundant youth conquered an older people
  - Abundant life forces left little for reflection and thought
  - The younger nation brought an older into subjection
    - People who had taken into itself forces of death from decadence
  - Not necessary to form a blood-bond – that which worked unconsciously between them worked in a rejuvenating way on the reflective faculties
  - The conqueror required the slaves to influence his consciousness
    - Turning his attention to these slaves quenched in his soul the longing for unconsciousness, thus reflective consciousness began to dawn
  - In overcoming another people, it won what it needed for its own evolution
  - A young people, not possessed of powers of reflection, needed a people that had in it more of the forces of death
- What we have to attain to-day as individuals was attained at that time by living together with others.
- These barbarous conflicts are in reality impulses of human evolution
  - They had to take place
  - Mankind would not have been able to develop on the earth, had it not been for these terrible wars and struggles that seem to us so barbarous
  - - Source: RSarchive.org, GA 233



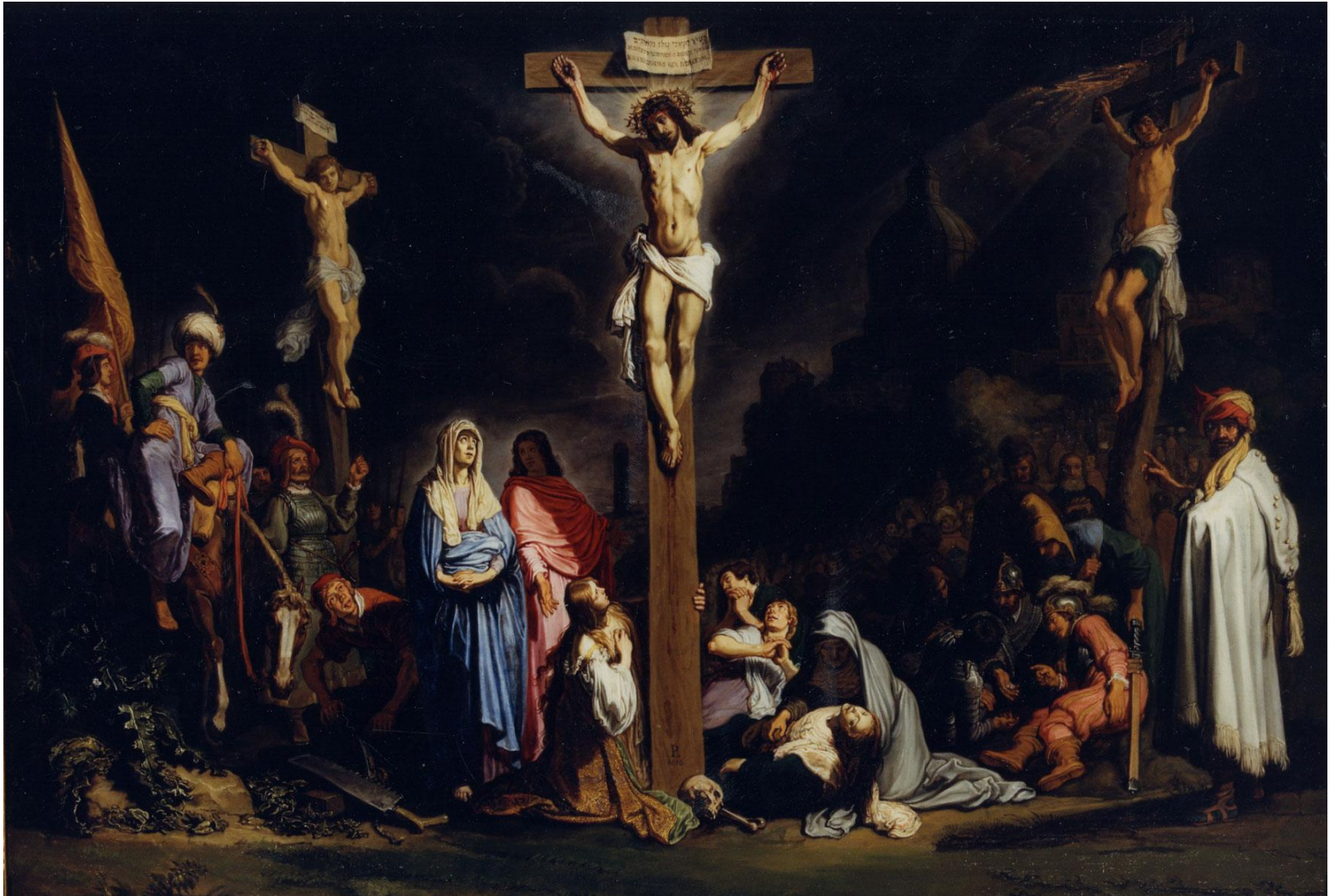
# HUMANS 2000 CE

- Consciousness Soul (CS) development
- Reflective development becoming Imagination
  - In forming mental images, man lives with his CS, not in real being, but in the non-reality of the picture state
  - This frees him from participating in the cosmic – to act in freedom

## FUTURE HUMANS WILL NOT BE LIKE TODAY

- How will they be different?
- Developed freedom and consciousness soul
- Will Synthetic Biology construct Human v2.0?

# PIETER LASTMAN (1616)



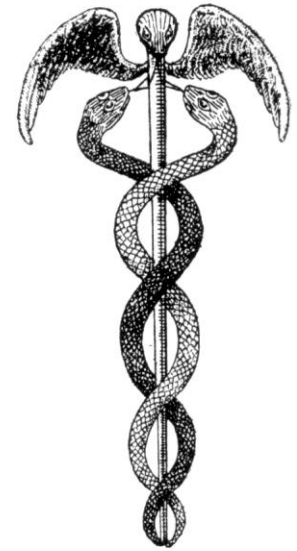
# AT THE TURNING POINT OF TIME

## Lucifer

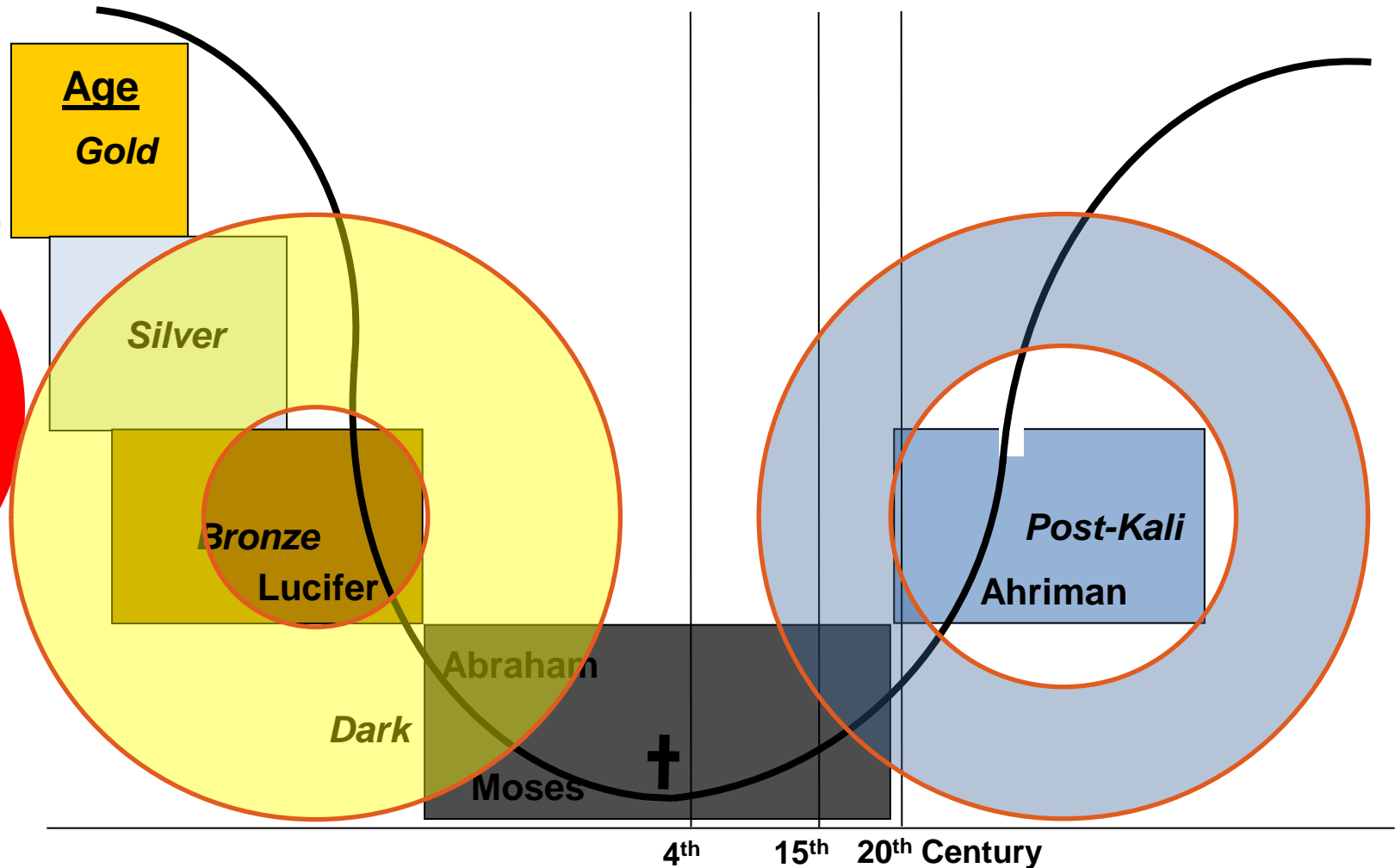
- Old Moon wisdom

## Ahriman

- Future intelligence



# POST ATLANTEAN HISTORICAL PICTURE PENDULUM



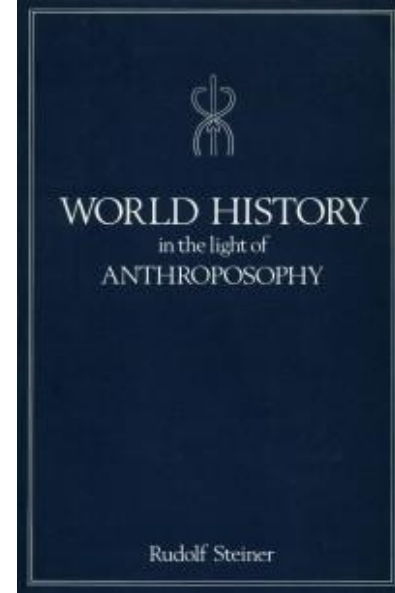


# INCARNATION OF LUCIFER

- Imagine you lived in China ~3000 BCE
  - 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?

# SIGNIFICANT TRANSITIONS IN HISTORY

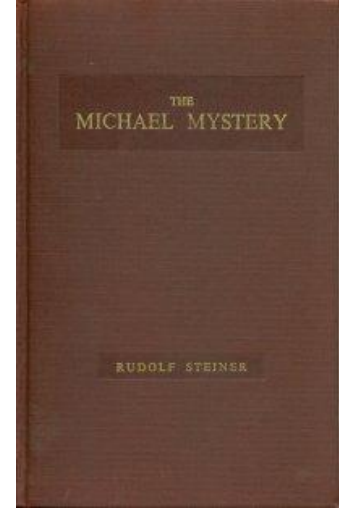
- Earth conditions, from life to lifeless
  - Human once jellyfish-like
- Macrocosm
  - From present to manifestation to calculable
- Memory: locale, rhythmic, temporal
- Post-Atlantean Cultural Epochs
  - The Question of Death, Greece/Asia
- Change from Turning Point of Time
  - Compare to Hinduism: through the Gita something of a noble purity, quite impersonal, calm, and passionless
  - Epistles of St. Paul: entirely personal, often a passionate character, utterly devoid of calm
- Renaissance
- Now





# BECOMING THE CALCULABLE

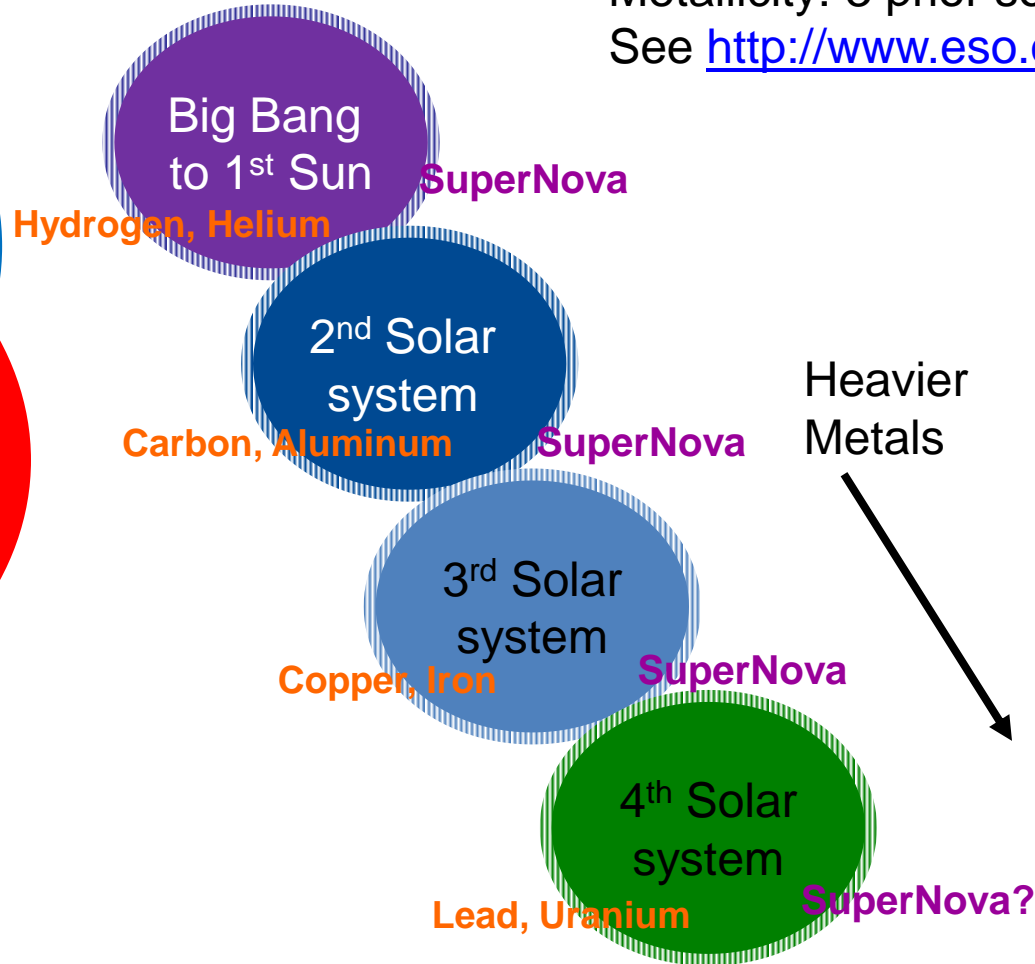
- The farther back clairvoyant vision penetrates into the past, the more the Macrocosm is seen in every greater fullness of life
- Life in the remote past ceases all calculability of its life-manifestations
- From this fullness of life Man is gradually separated out
- Macrocosm passes more and more into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



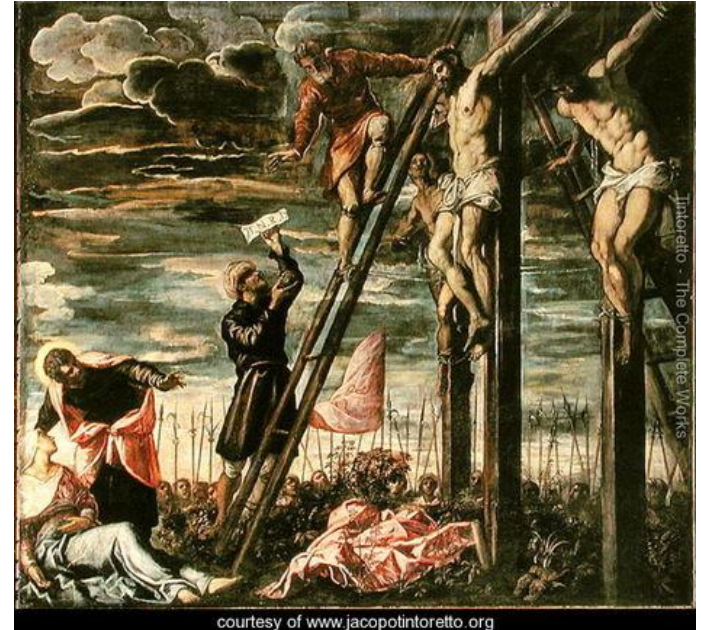
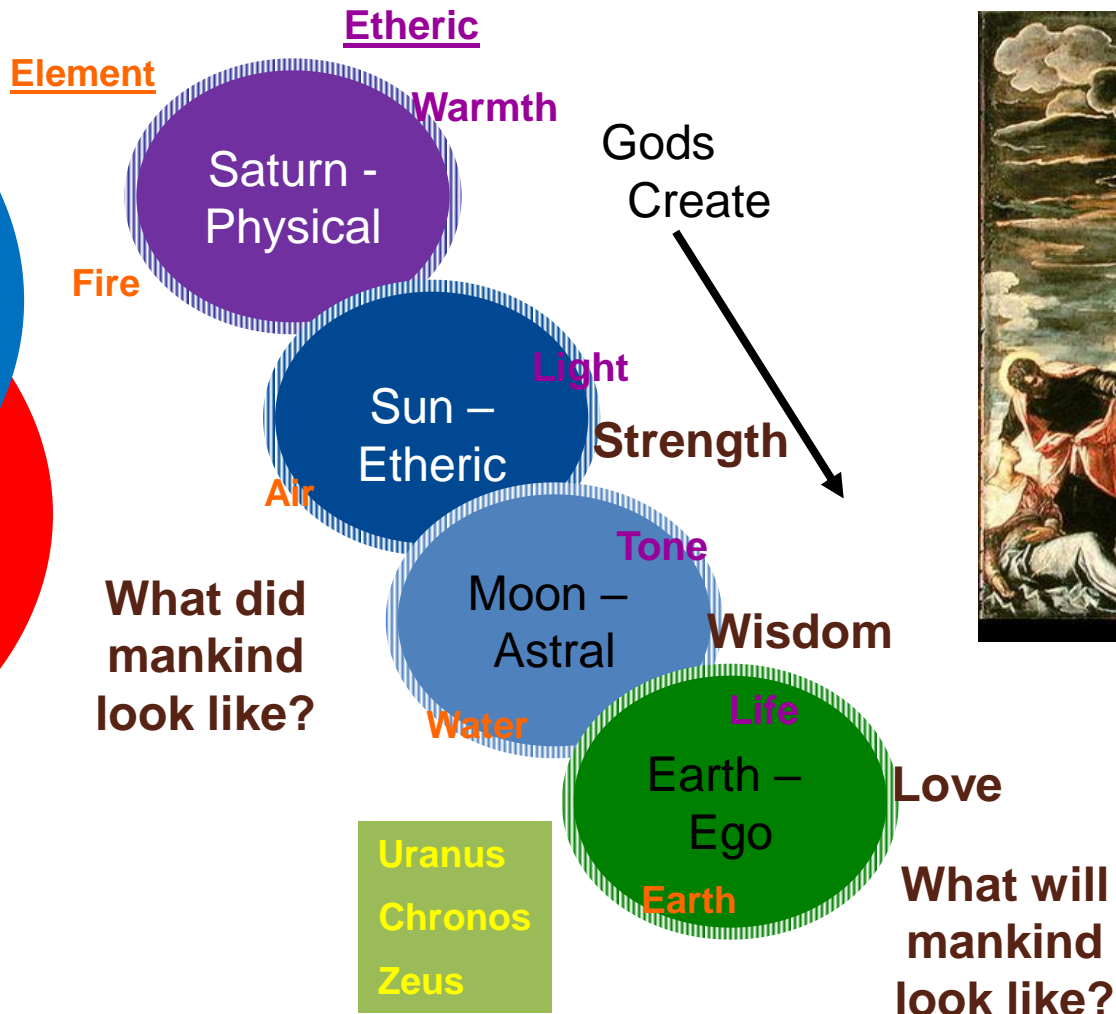
# STELLAR EVOLUTION & METALLICITY

Metallicity: 3 prior solar systems to have heavy metals

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

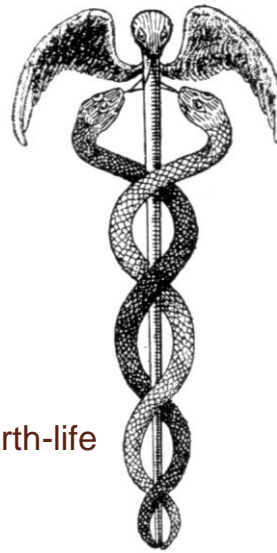


# COSMIC EVOLUTION OF THE HUMAN CONDITION



1. Lucifer
2. Christ
3. Ahriman

# 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



# 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.”

# 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

- 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 15<sup>th</sup> C → Intelligence-Personality
  - Key Point in Time: 20<sup>th</sup> to 21<sup>st</sup> 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 then
- 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



# 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 15<sup>th</sup> Century
- Now Spirits of Personality (Archai) begin to ascend to Exusiai level
- They do not intercede but wait for us to rise to them
- Michael?
- Nerves
  - Archangels
- Blood
  - Angels
- Mechanistic
  - Information





# 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
  - They have power mainly over the rational mind and intellect
  - They cannot get hold of the emotions, nor the will and, above all, not the will impulses

# SEVEN EPOCHS OF THE PHYSICAL REALM

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

← What did we look like here?



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

5. 5<sup>th</sup>
6. 6<sup>th</sup> Russian
7. 7<sup>th</sup> American

← You are here

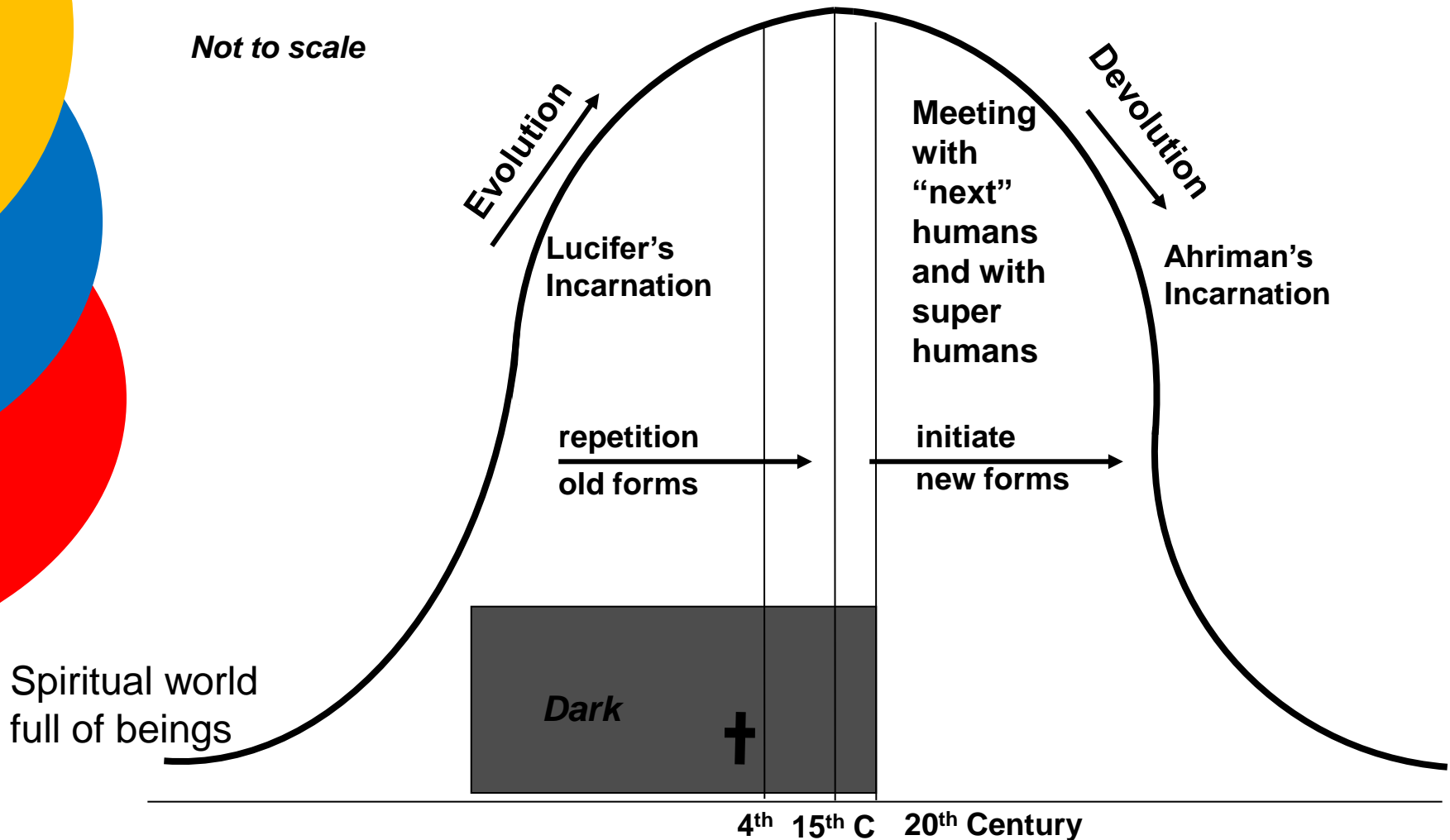
6. Sixth Epoch
7. Seventh Epoch

← What will we look like here?

The height of post-Atlantean culture is reached in the fifth epoch. What will follow in the sixth and seventh epochs will be a descending line of evolution.

*Preparing for the Sixth Epoch, GA 159*

# 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



# 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

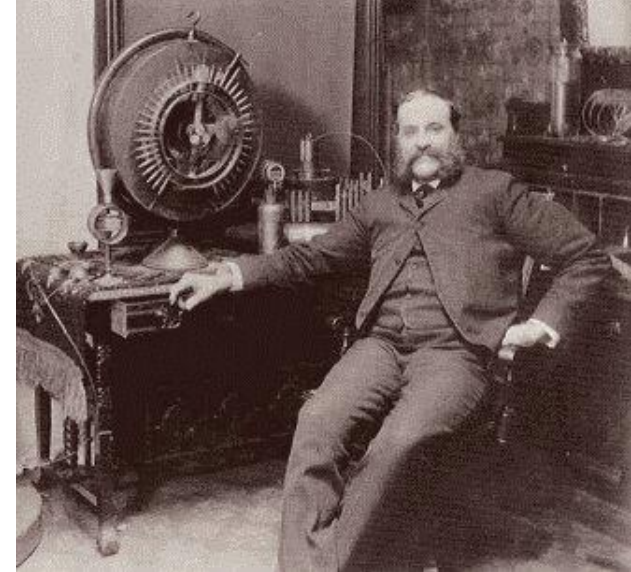
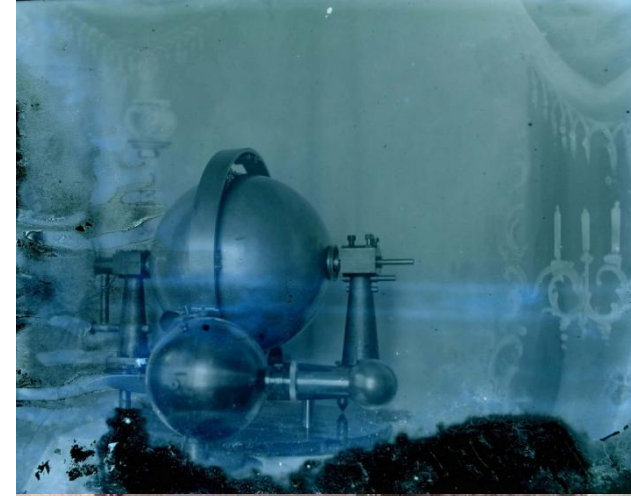
# BRAIN MODEM

- Being developed by the US Army
  - DARPA's Neural Engineering System Design initiative
  - Already have [biodegradable implants](#) for the brain
- Provide unprecedented signal resolution and data-transfer wireless bandwidth between the human brain and the digital world
  - Connect to 1M neurons at a time
- Control your tank, car, or microwave just with your mind
  - Open conversation (hands-free phone call) simply by willing it
    - “Mom, I can’t talk with you right now!”
    - Would not telepathy be just behind?
  - Steer a drone with your thoughts and see what the drone’s sensors see—in real time
- “Potential for ‘fundamental new insights’ into how the brain works” -- Bradley Greger, neuroscientist Arizona State Univ

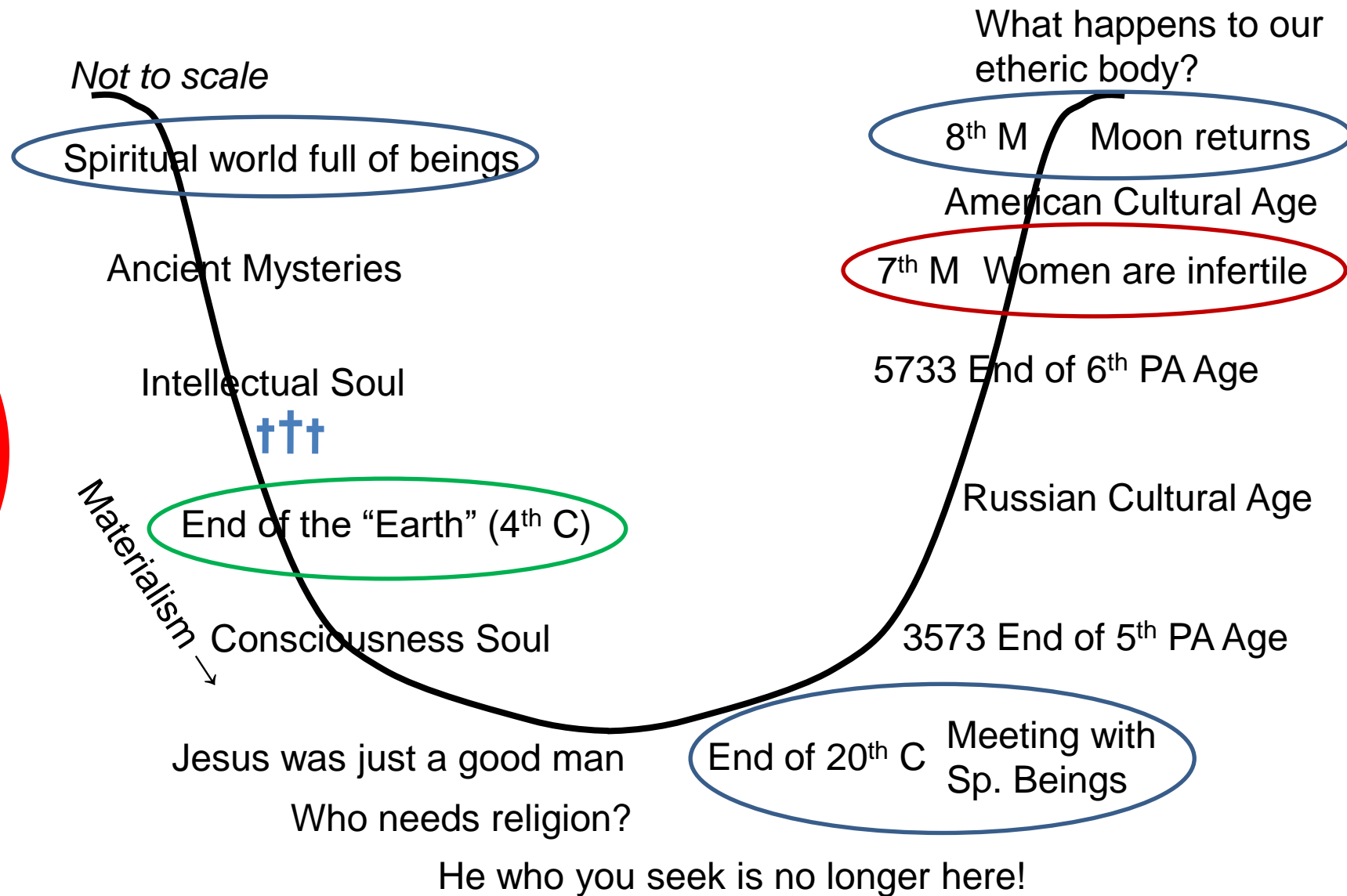


# ATTACHED TO MACHINES WITHOUT WIRES

- Sympathetic Vibratory Physics
  - Bio-rhythms, moral rhythms
  - 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 – operates by sympathetic vibrations
  - Stader Machine
- Remember: not the **What** but the **How**



# 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 6<sup>TH</sup> AND 7<sup>TH</sup> 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

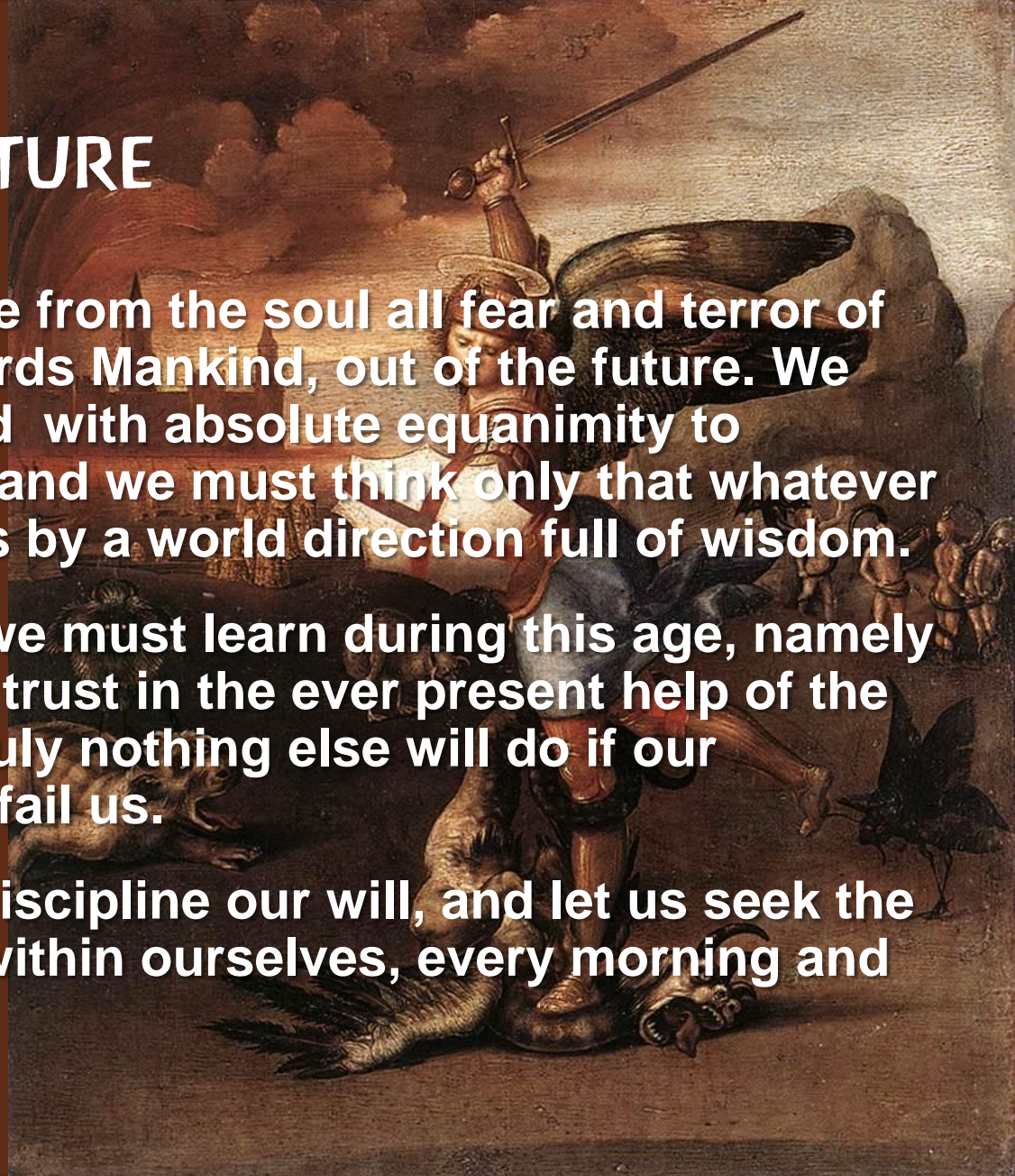
# WHAT WILL LIFE BE LIKE IN THE 8<sup>TH</sup> MILLENIUM?

- 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.

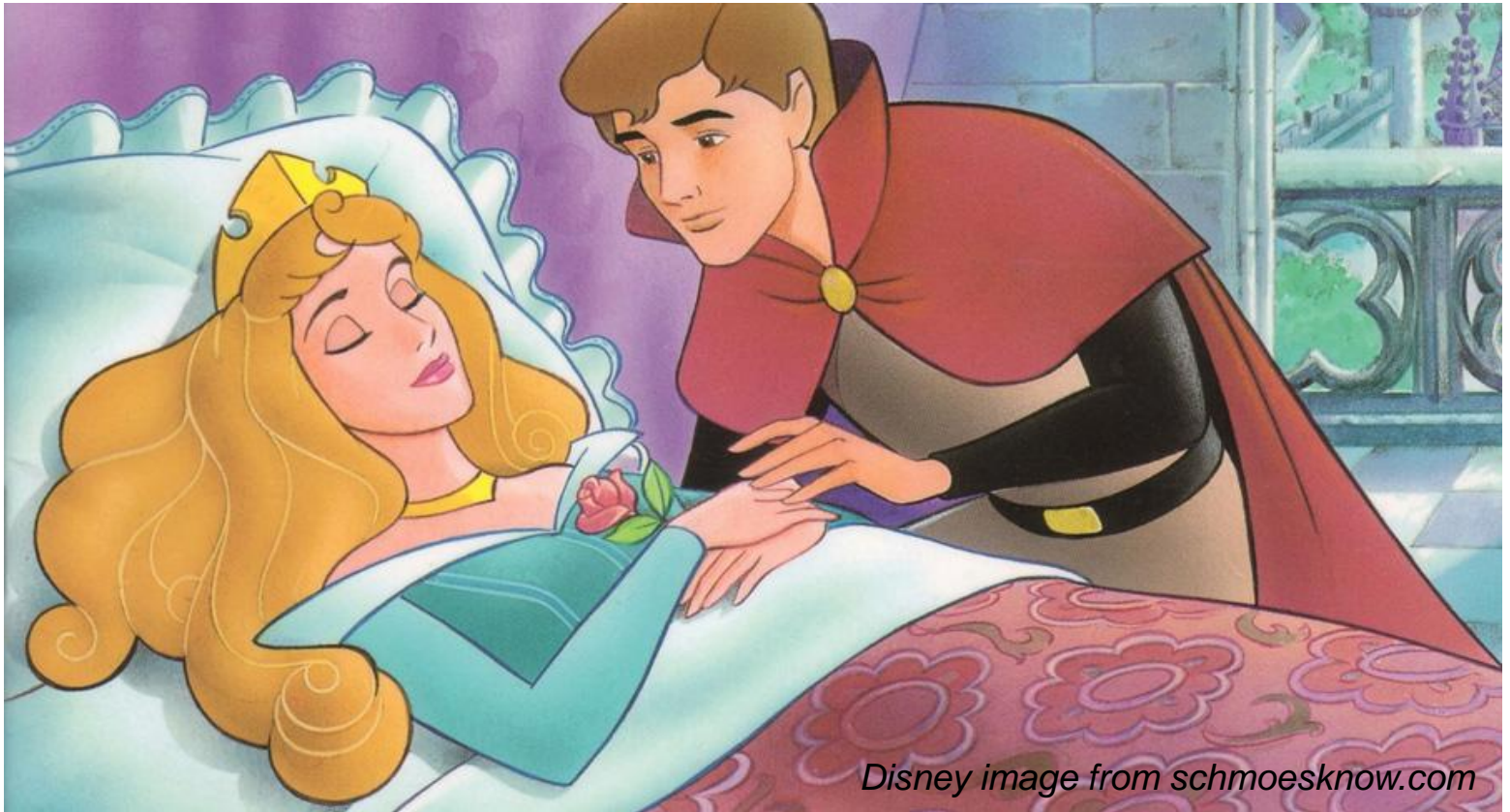
Rudolf Steiner



spirit

soul

life



*Disney image from schmoesknow.com*

# WHAT ABOUT THE SOUL?

Thinking, Feeling, and Willing

# OUR “THREE” SOULS

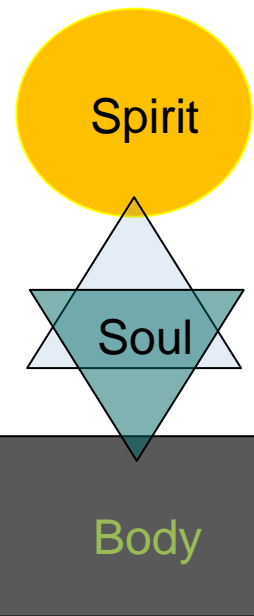
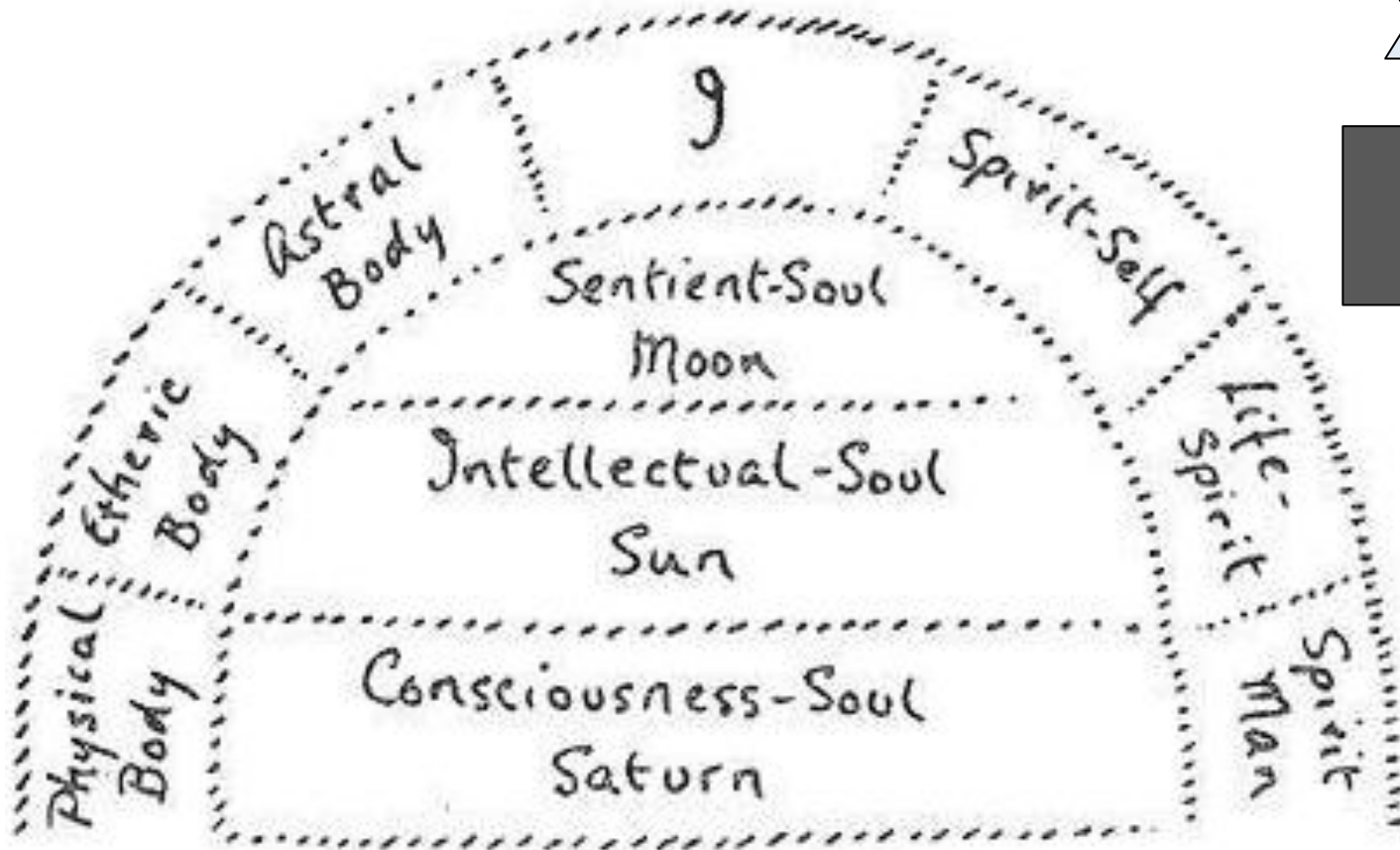
- **Sentient soul:** the ‘darkest depths’ of the soul, where the soul is still subject to emotions of fear, terror, anxiety and hope, and to the whole gamut of pleasure and pain, joy and sorrow
- **Intellectual soul:** achieved when the ego assimilates external impressions and quietly allows that which emerges in the sentient soul to live itself out and find equilibrium
  - Inner truth, as we may call it, arises in the **intellectual soul**
- **Consciousness soul:** what it has gained on its way to the intellectual soul is then worked on further by the ego thereby *raising itself* to become consciousness soul
  - Where for the first time a **clear knowledge of the ego** is possible
  - 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*





# TODAY'S MISSION: CONSCIOUSNESS SOUL

- Begins with Ego at home in the intellectual soul
  - Shuts itself off from sensory inputs (closed windows)
    - What happens to development of fraternity?
  - Social media today facilitates a voiceless social life
    - Creates “memory” as a 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 concerning 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

- Typifies Consciousness Soul development in our times

## Our Powerful Soul

- Telephone
- Facetime/Skype
- Virtual Reality
- Overcomes 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

Turns the human heart in **love** towards great **cosmic connections**

**Fires with its warmth 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

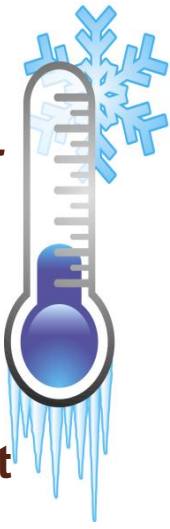
He would either *perish in the cold of intellectual consciousness*, or would be condemned to *remain in a form of spiritual life which never progresses to the evolution of the Spiritual Soul*

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





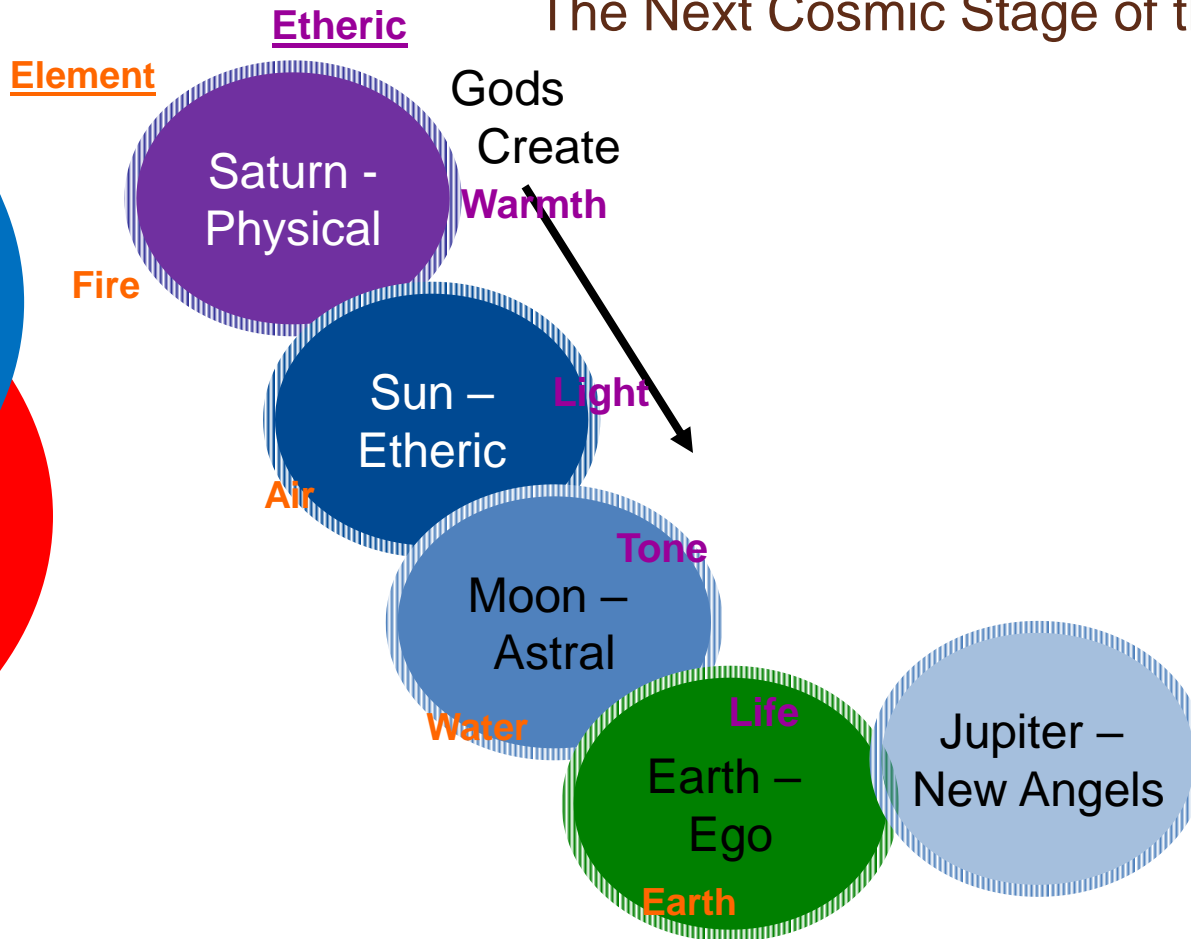
# BODY AND SOUL TODAY

- “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



spirit

soul

life



**MAN AND MACHINES:  
CAN WE BECOME FRIENDS?  
HEY, AREN'T THEY THE ENEMY?  
WILL WE BECOME THEIR  
ANGELS?**

# EVOLUTION OF MACHINE

- 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](http://www.worldrobotics.org)
- [www.ifr.org](http://www.ifr.org) (international federation of robotics)
- [SPARC](http://SPARC)
- [euRobotics](http://euRobotics)
  - A robot in every home
- National Institute of [Advanced Industrial Science and Technology](http://Advanced Industrial Science and Technology)
- [www.ParisTechReview.com](http://www.ParisTechReview.com)

WW race to market on-going

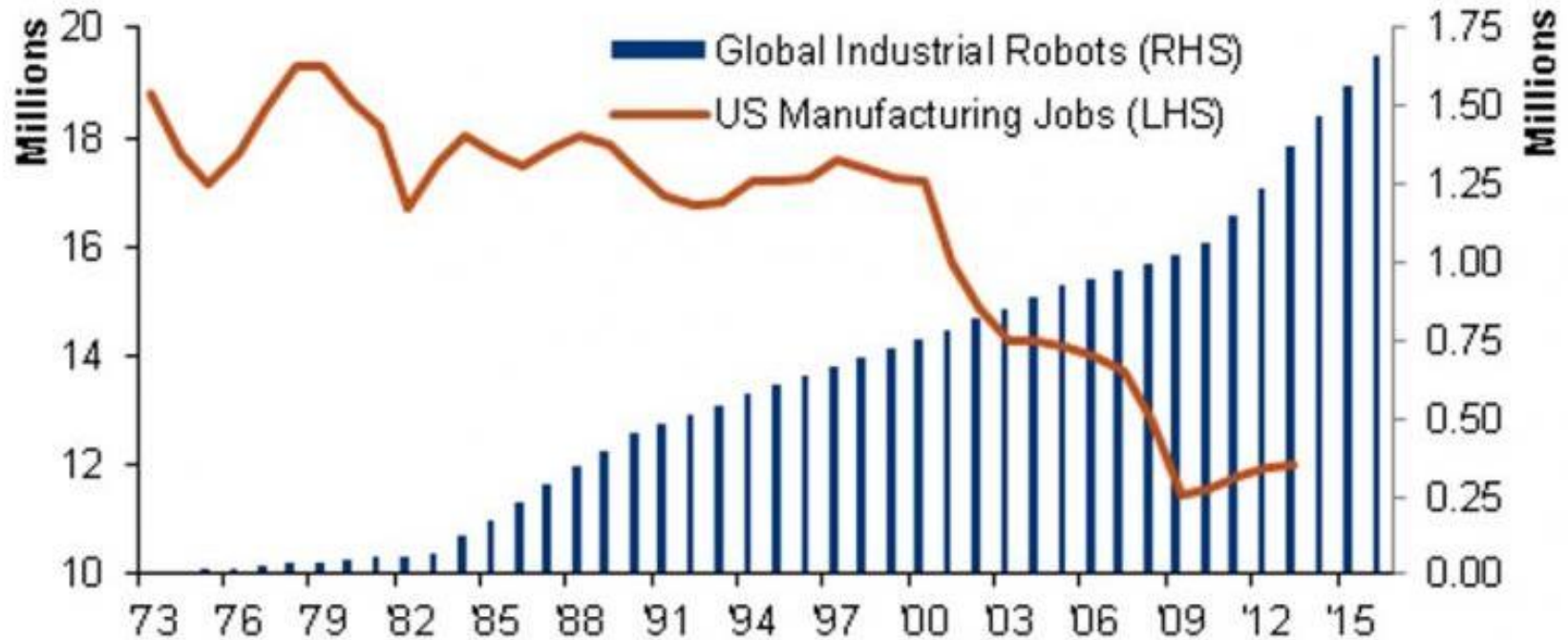


# ROBOTS IN MANUFACTURING



In the United States, agricultural employment fell from a majority of the workforce late in the 19th century, to less than two percent today – could that happen in Mfg.?

## 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.” *What sort of jobs will be left? Professional only?*
- No job is immune from impact: professionals, healthcare, design, art
  - Except, maybe, the performing arts



# CHANGE IN VOCATION

- Robots will obliterate America's middle class and unleash mass unemployment, social chaos and global populist revolts  
Source: [http://www.naturalnews.com/052787\\_robot\\_workers\\_massive\\_unemployment\\_populist\\_revolt.html#ixzz3yaTPa8ox](http://www.naturalnews.com/052787_robot_workers_massive_unemployment_populist_revolt.html#ixzz3yaTPa8ox) 1/28/2016
- 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 – 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  
**AI Butler** coming soon

What is **missing** in robots?

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

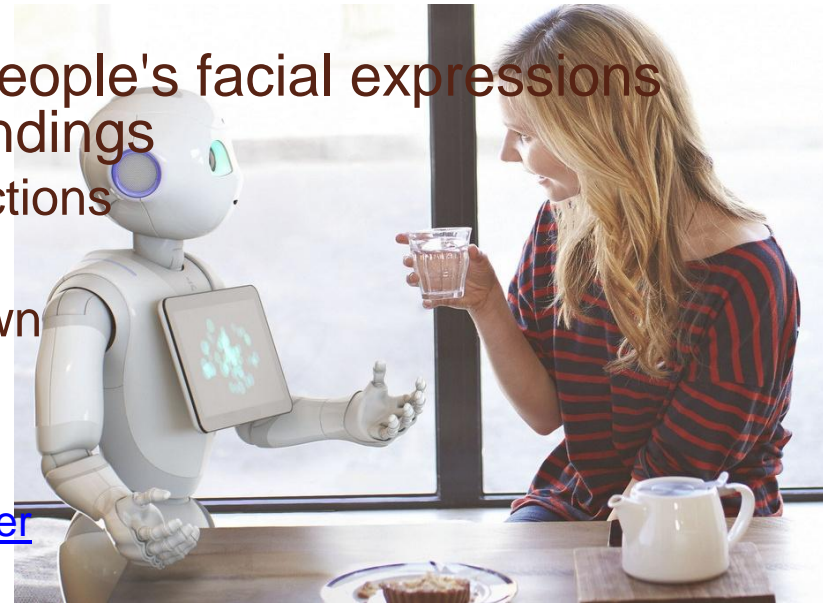
# “HUMANIZING TECHNOLOGY”: THE FAMILY ROBOT

- <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>

# BATTLE FOR THE HUMAN WILL

- Robots and human movement

# MISSING

HAVE YOU SEEN THESE PEOPLE?



**DESCRIPTION:** Ambitious young adults with shovels during a snow storm, who are looking to make money by shoveling sidewalks, driveways, etc.

**LAST SEEN:** Sometime before the invention of Microsoft's Xbox, SONY's Play Station, and Nintendo's Wii home video consoles.



“We want to transplant your brain into an elegantly designed bionic body called Humai” (Human-AI). Is this Panpsychism?

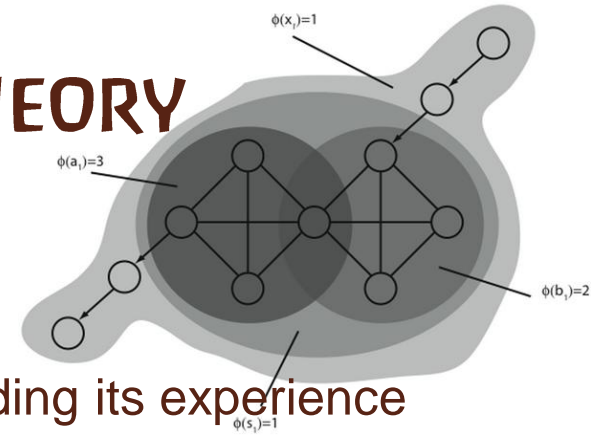
# MAN AND MACHINE: INTELLIGENCE, CONSCIOUSNESS, IMMORTALITY, AND SOUL



# HUMAI: IMPLANT A HUMAN BRAIN TO AN ARTIFICIAL BODY - *IS IT SIMILAR TO DRIVING A CAR?*

- “We’re using artificial intelligence and nanotechnology to store data of conversational styles, behavioral patterns, thought processes and information about how your body functions from the inside-out
- This data will be coded into multiple sensor technologies, which will be built into an artificial body with the brain of a deceased human
- The artificial body functions will be controlled with your thoughts by measuring brain waves
- After death we’ll freeze the brain using cryonics technology
- When the technology is fully developed we’ll implant the brain into an advanced artificial body”
- “As your brain matures, genetic engineering will help fight the aging process, while advancements in nanotechnology will offer extensive tissue repair and regeneration, including the repair of individual brain cells, one molecule at a time.”
- *How much of the soul’s activity is hereby “captured”?*

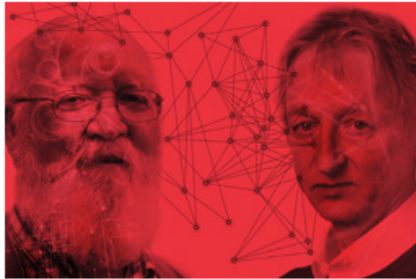
# INTEGRATED INFORMATION THEORY



- Postulates:
  1. Consciousness has *information* regarding its experience
  2. The experience is *integrated* to the extent that parts of an experience are informative of each other
- Framework to understand and explain (and engineer) the nature of consciousness
- Information is *the reduction* in uncertainty
  - Regarding the state of a variable
  - Conversely, it is what increases in specifying a variable with a growing number of possible states
  - The amount of information a conscious-system must hold should also be large
  - The *quantity* of consciousness in a system is measured by the amount of integrated information it generates

## 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?

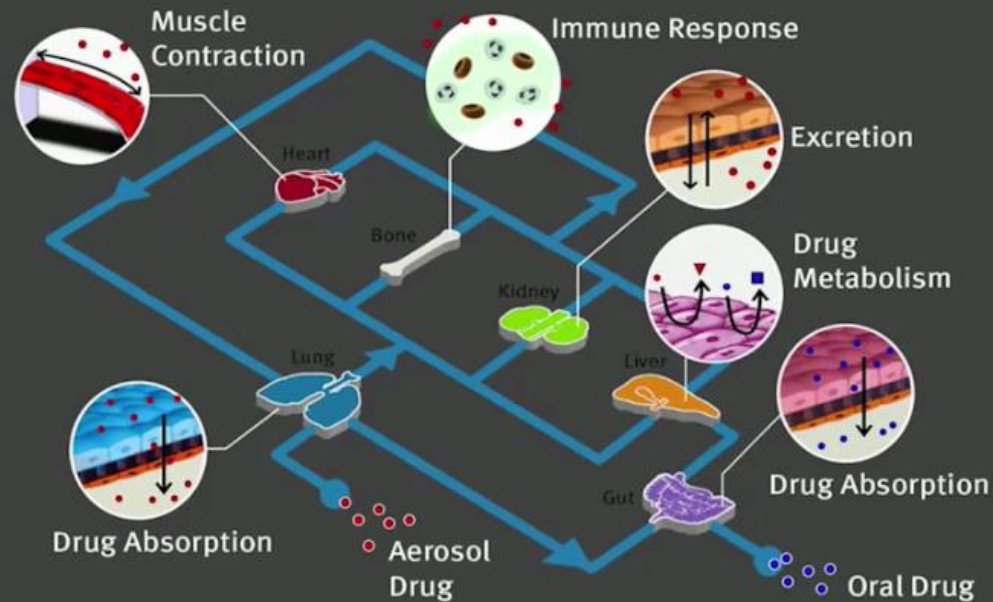
- Definition of Cyborg: *an organism to which exogenous components have been added for the purpose of adapting to new environments*
- Are children prepared?
- Extension of self
  - Mental
  - Also Physical
- Second virtual self
  - There 24 hr/day
  - Maintain
  - Attachment of 2<sup>nd</sup> being?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



# IT'S 10 O'CLOCK, DO YOU KNOW WHERE YOUR KIDS ARE? – MACHINES CAN HELP

- VeriChip with RFID & GPS
  - Size = grain of rice
  - VIP clubbers
    - No place for money
    - Credit card
    - National ID
- Marketers' dream
- Scannable tag
  - Pets and livestock (ears)
  - Equipment
  - Immigrant, Alzheimer/diabetic, soldier,
  - Sex offenders, children, employee badge
- Readers monitor vital signs, whereabouts
- How difficult is it today to incarnate?
- Baby monitors – filling room with EMR





**The chip will help scientists  
test drugs directly on human organs**

## Meet the Tiny Chip that Mimics Human Organs

The humans of tomorrow might have their organs on a chip. Indeed, these devices may have already arrived. Here's



# 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?
- Created in Our (Human) Image
  1. Willing: Construction, transportation, weapons
  2. Feeling: Communications, manufacturing
  3. Thinking: Accounting, analyzing, modeling, databases, AI

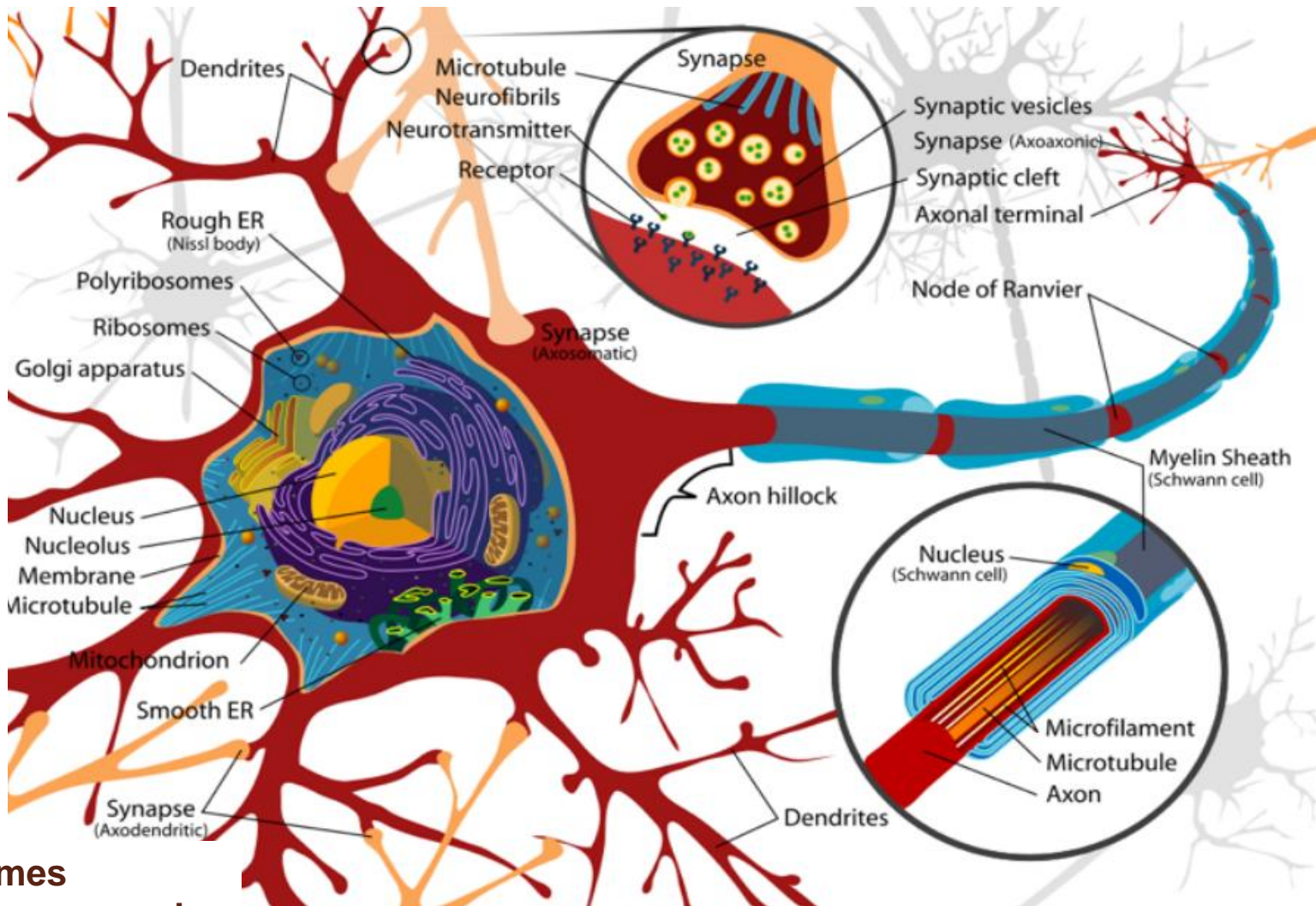


# IS HUMAN-LEVEL AI EVEN POSSIBLE?

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

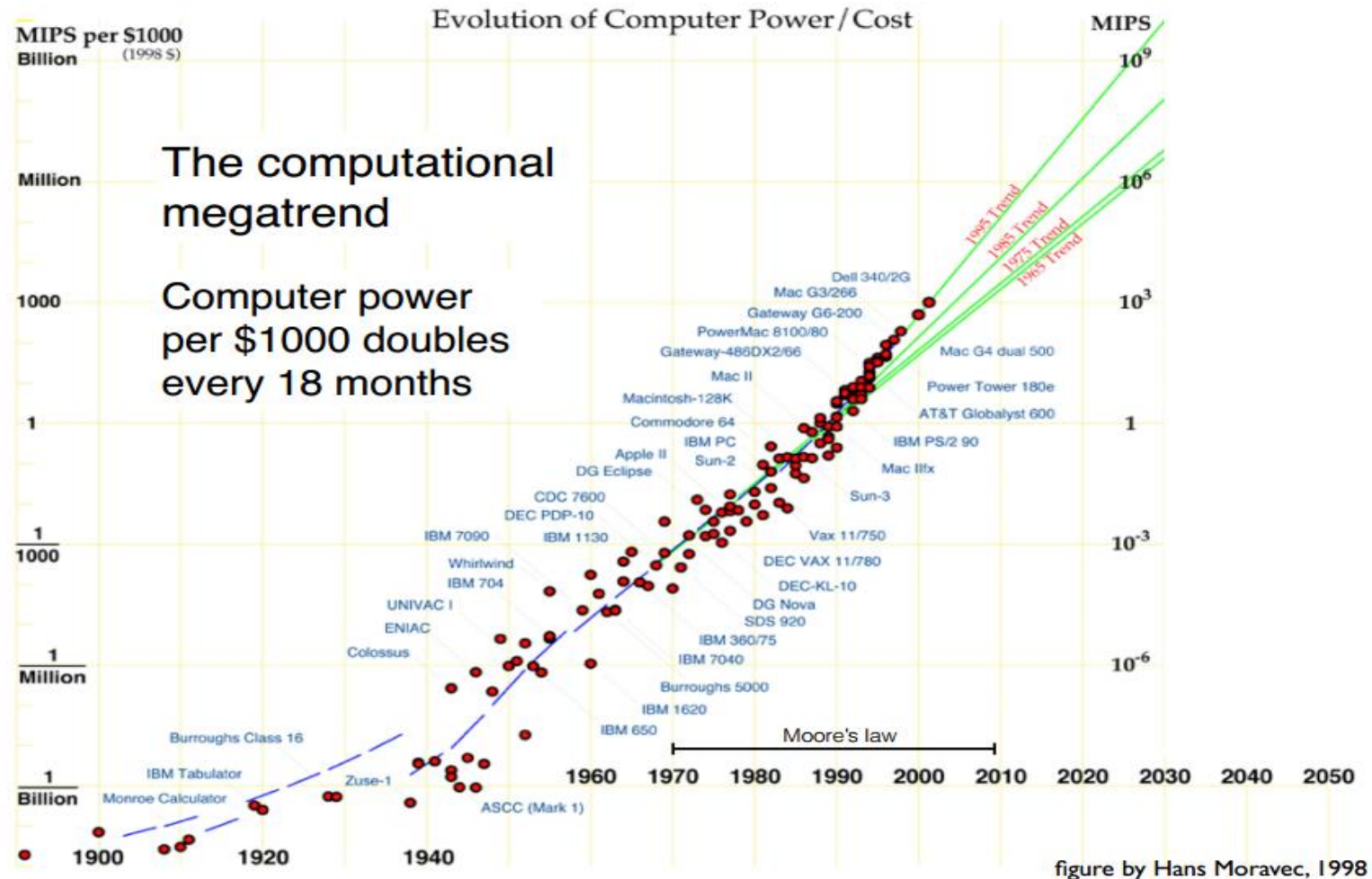


Logic assumes  
Synapses correspond  
to Transistors

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

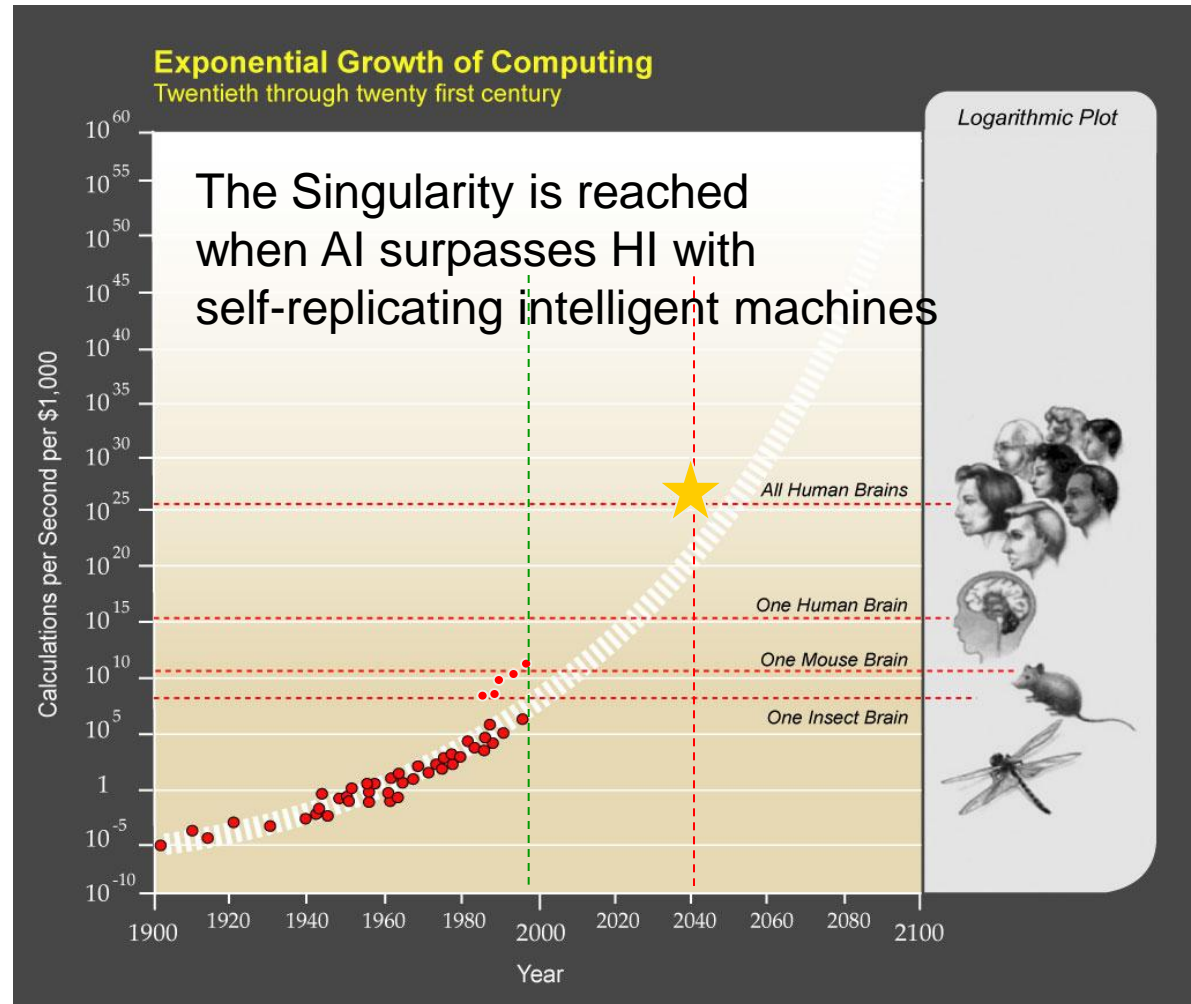
\$2000 computer, 2020 = human brain, 2045 =  $\Sigma$  all human

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

**Blue Brain Project**

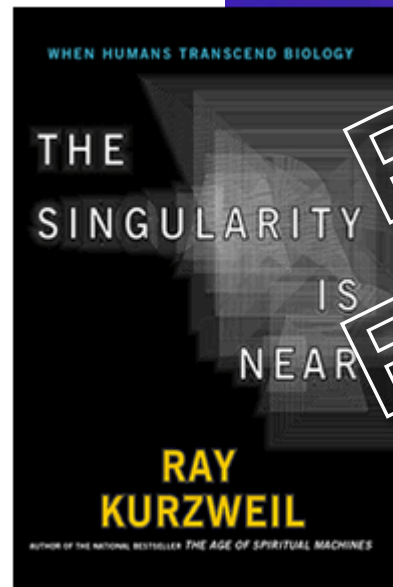
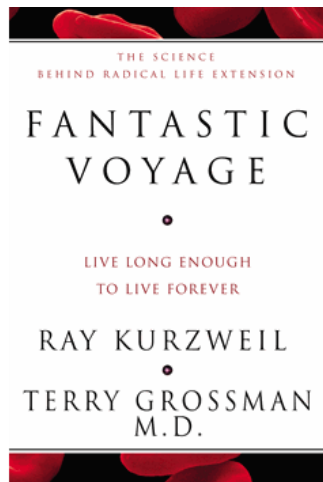
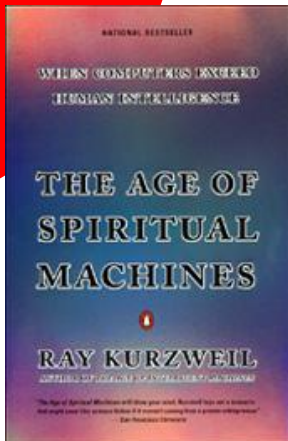
Mimic the Brain

[www.eetimes.com](http://www.eetimes.com), May 28, 2008



# RAY KURZWEIL'S VISION OF THE FUTURE

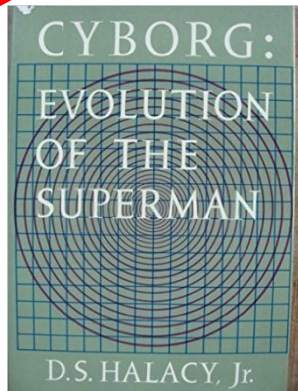
- Immortality is within our grasp
- When Humans transcend biology



**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](http://futureoflife.org/misc/ai_conference)
4. <http://www.techrepublic.com/article/humans-2-0-how-the-robot-revolution-is-going-to-change-how-we-see-feel-and-talk/>

# 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>

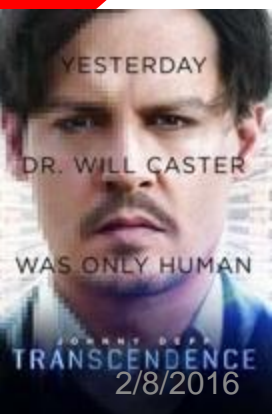
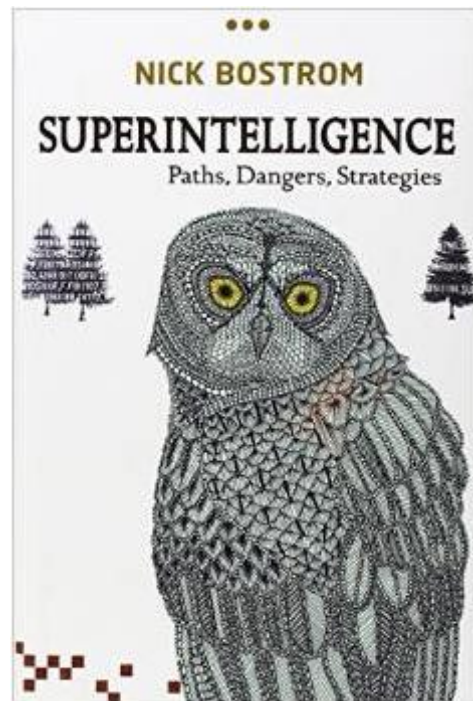
# 2045 INITIATIVE'S TIMELINE

- **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**



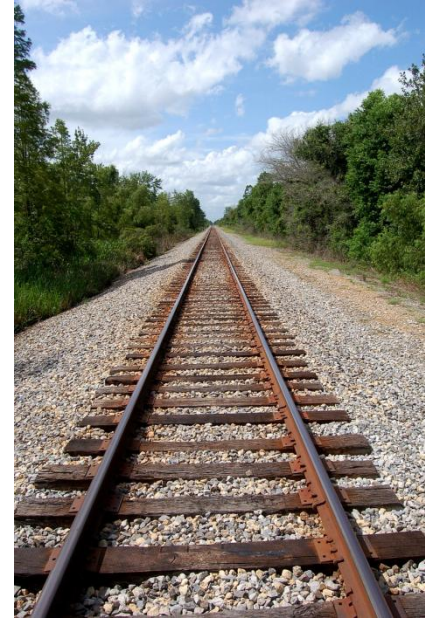
# ONWARD TO GOD-INTELLIGENCE

- “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 or super-AI or God is love?
  - 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

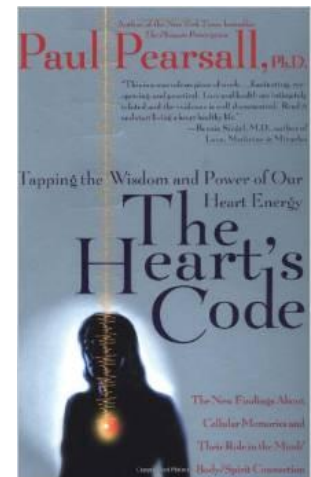
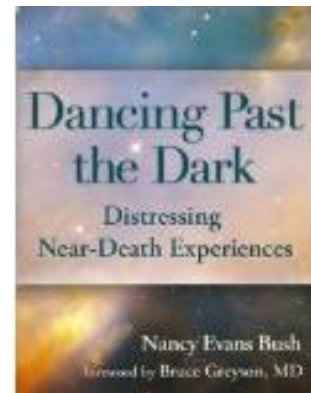
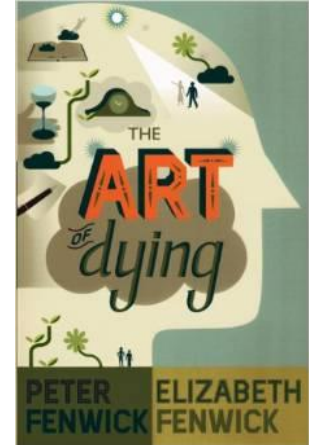
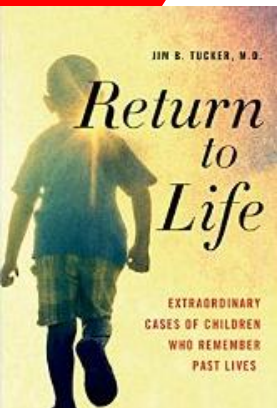
Will we “be there” once we reverse engineer the brain?

- 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?

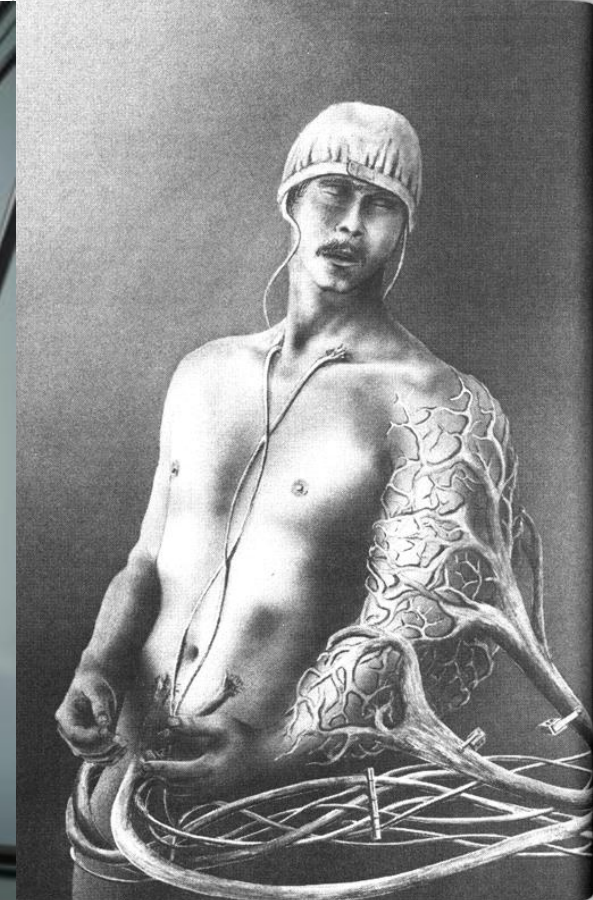
Jim B. Tucker *studies of recollections of past lives*



spirit

SOU

li



# MERGING MAN AND MACHINE

## MACHINE PROSTHESES

## PROSTHESES

## 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 Iezzi)
- 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>



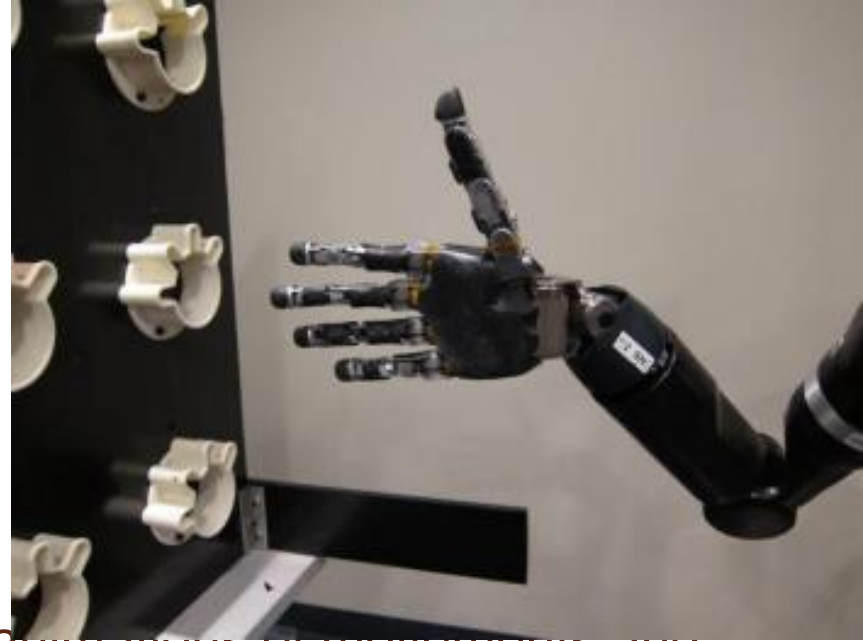
# LINKING THE BRAIN TO MECHANICAL ARMS



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, and 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://www.totalwealthresearch.com)

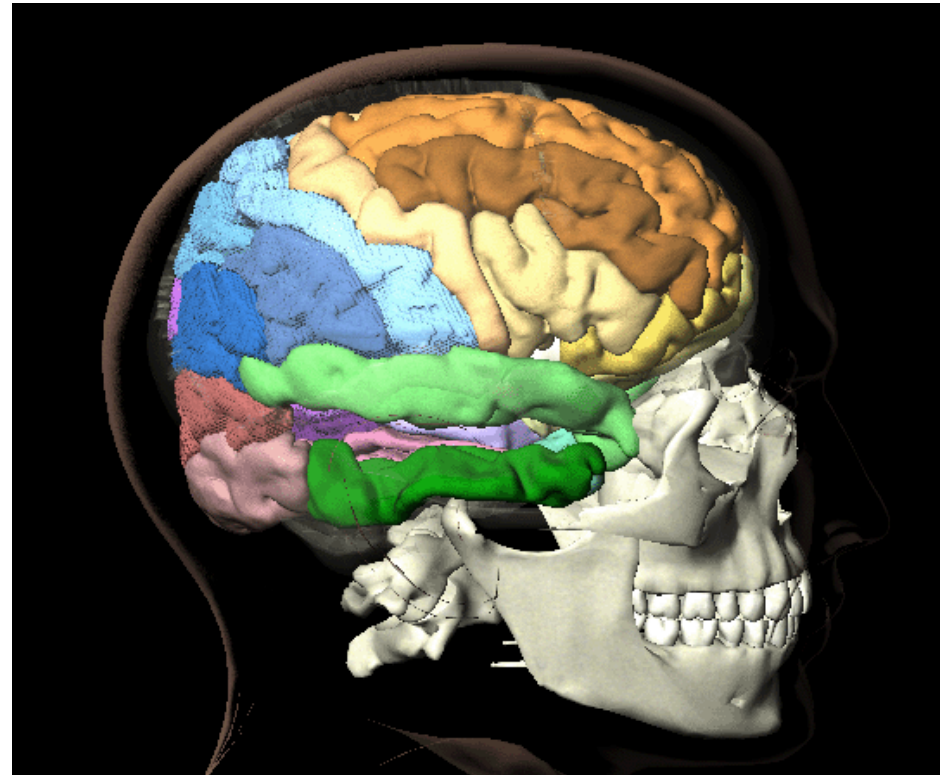


<http://eksobionics.com/ekso>

# LEADING TO BRAIN AUGMENTATION

## Embed

- GPS & RFID
- Wireless internet
- Internet of Things
  - Wearables
- 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
  - Should we 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?
  - 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?

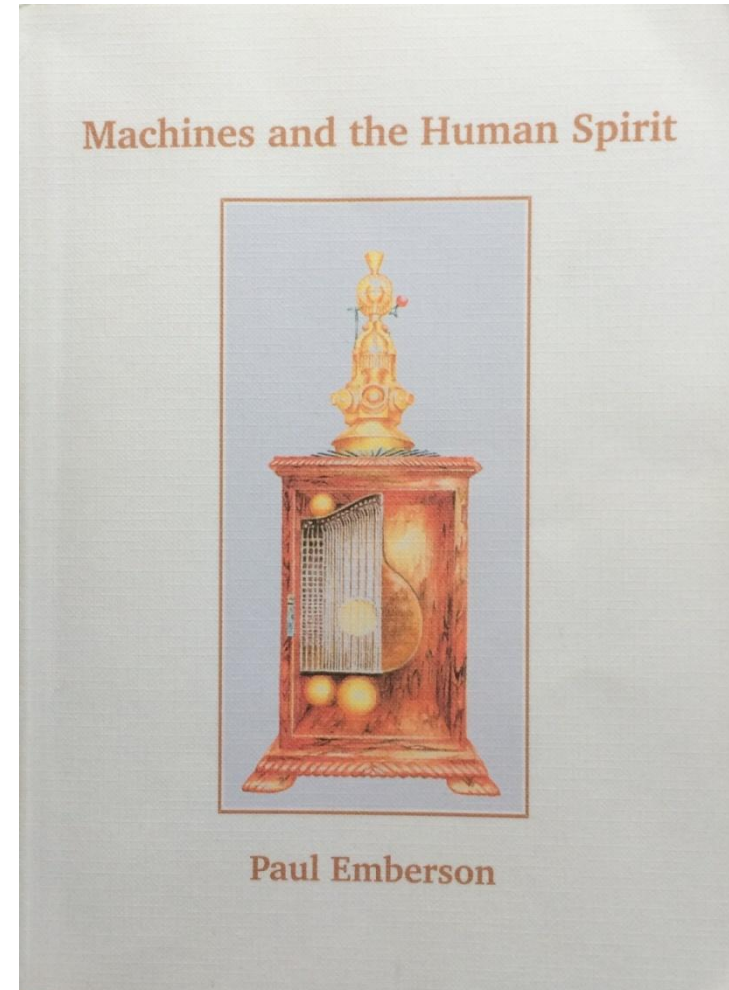
- Keely's pronouncements & indications obscured
- 1888: "Occultists generally believe that the **world is not yet ready** for the appearance of such terrible forces in the life of humanity. Man is too selfish, cruel, stupid, unsympathetic, bestial, to be entrusted with what in sober reality are secondary '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

# LIFE AND MORAL TECHNOLOGIES

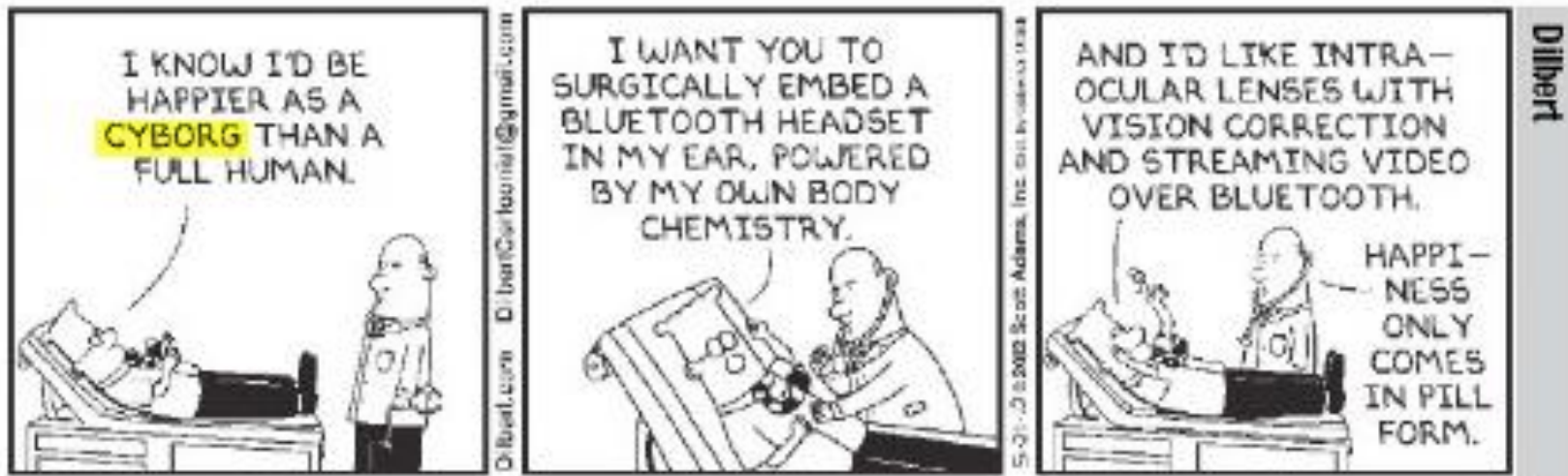
- “Introduce life into things he makes”
- “Whoever is doing this at the laboratory bench will have to be capable of drawing out of himself – let us call them the oscillations of his etheric body – and carrying them over into that which is to receive life”
- Knowledge of how to do this is guarded by the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



spirit

soul

life



# MACHINES ENTER OUR FEELING LIFE



Trailer 3  
Play 2:32

Trailer 2  
Play 2:29

Trailer  
Play 2:03

## Ex Machina <sup>®</sup>

In Theaters April 10th, 2015 | © 2015 A24

[Details](#)

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.

[f](#)
[t](#)
[Official Website](#)

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

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 **Love** our machines?



# OUR GOAL: DEVELOP LOVE AND FREEDOM

- Pygmalion
- He fell in love with his ivory statue
- Pygmalion
- He fell in love with the living Aphrodite
- He fell in love with the living Aphrodite
- When he finished the statue, he fell in love with her again
- Pygmalion



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

# WHAT CAN WE FALL IN LOVE WITH?

- Missing a finger?
- Missing an arm?
- Missing an arm & a leg?
- Transplanted face ?
- Can we love a person
  - With a pace maker?
  - With bionic eyes?
  - Who we know only through their avatar?





( 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

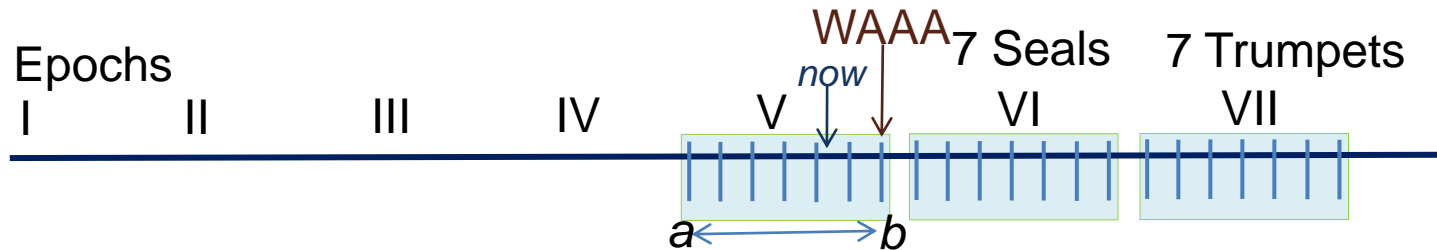


# FACING A FUTURE WITH MACHINES (THE WESTERN PATH)

- “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.**” [*not the what but the how*]
  - Both helpful & harmful intelligent mechanized beasts
    - Through Pisces & Virgo (help) or Gemini & Sagittarius (harm)
  - Will it help us to see more clearly what the HB is?
- “Our feelings of **fear** are **nourishment** for evil beings.” — *Jan.26, 1908, Berlin, GA 245*

# 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



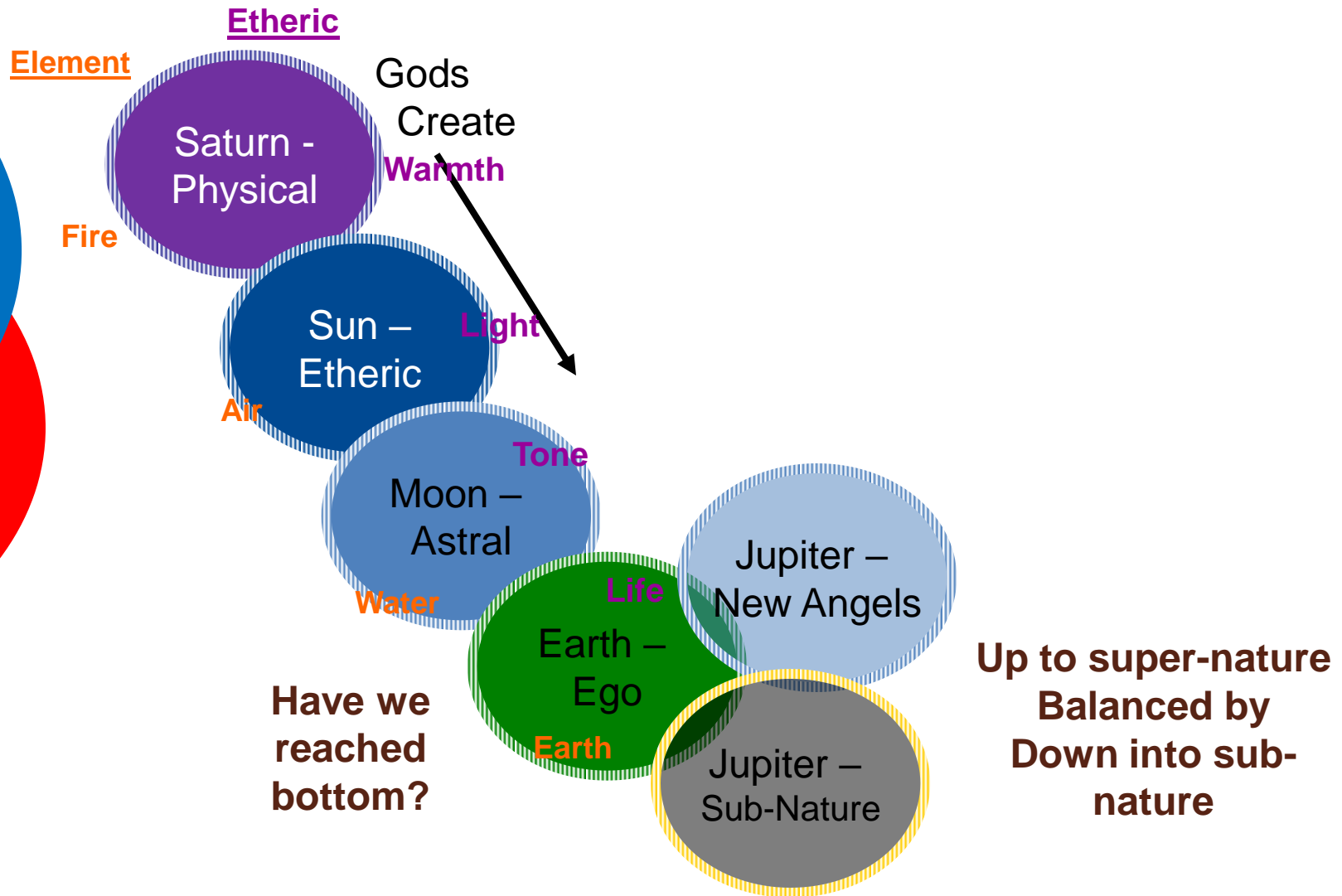


# FUTURE AGES AND EPOCHS

- 6<sup>th</sup> PA Age (Russian) will found civilization after WAA
  - Founds the 7 Seals' civilization, not the last (7<sup>th</sup> = American)
    - 5<sup>th</sup> Atlantean race founded PA cultures
    - Western Path: Taking on Evil (Mission of Mani)
- 6<sup>th</sup> Epoch: Live in a **Descended** Astral World (7 Seals)
  - 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
- 7<sup>th</sup> 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 underway) 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 THE EARTH STAGE

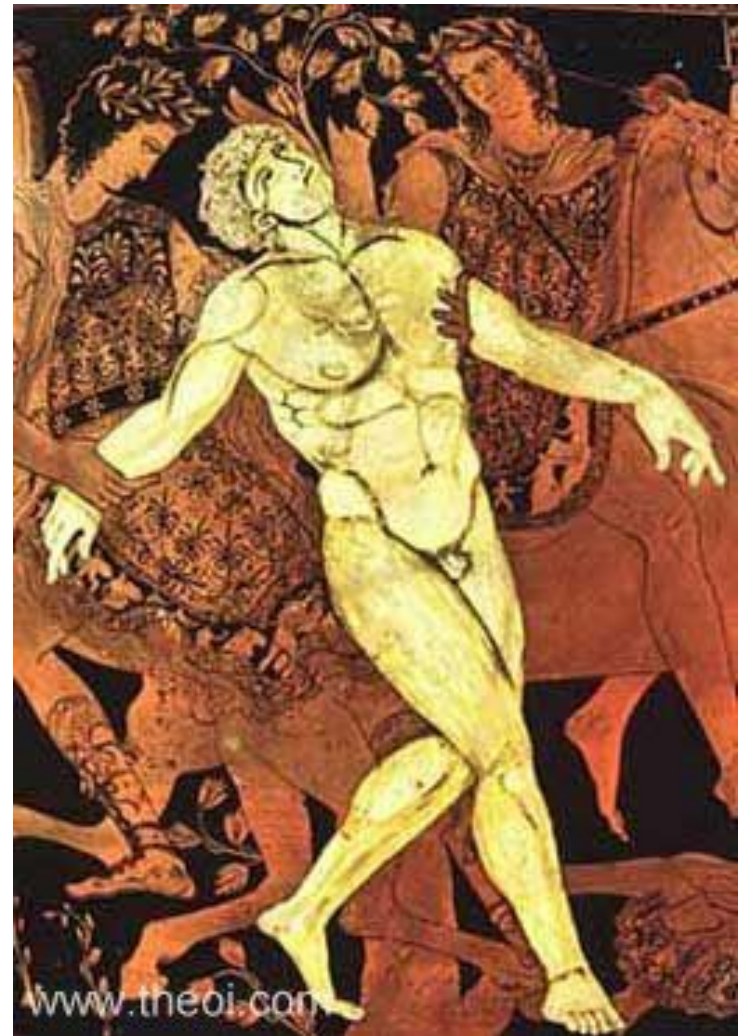
# 24

- **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** 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 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

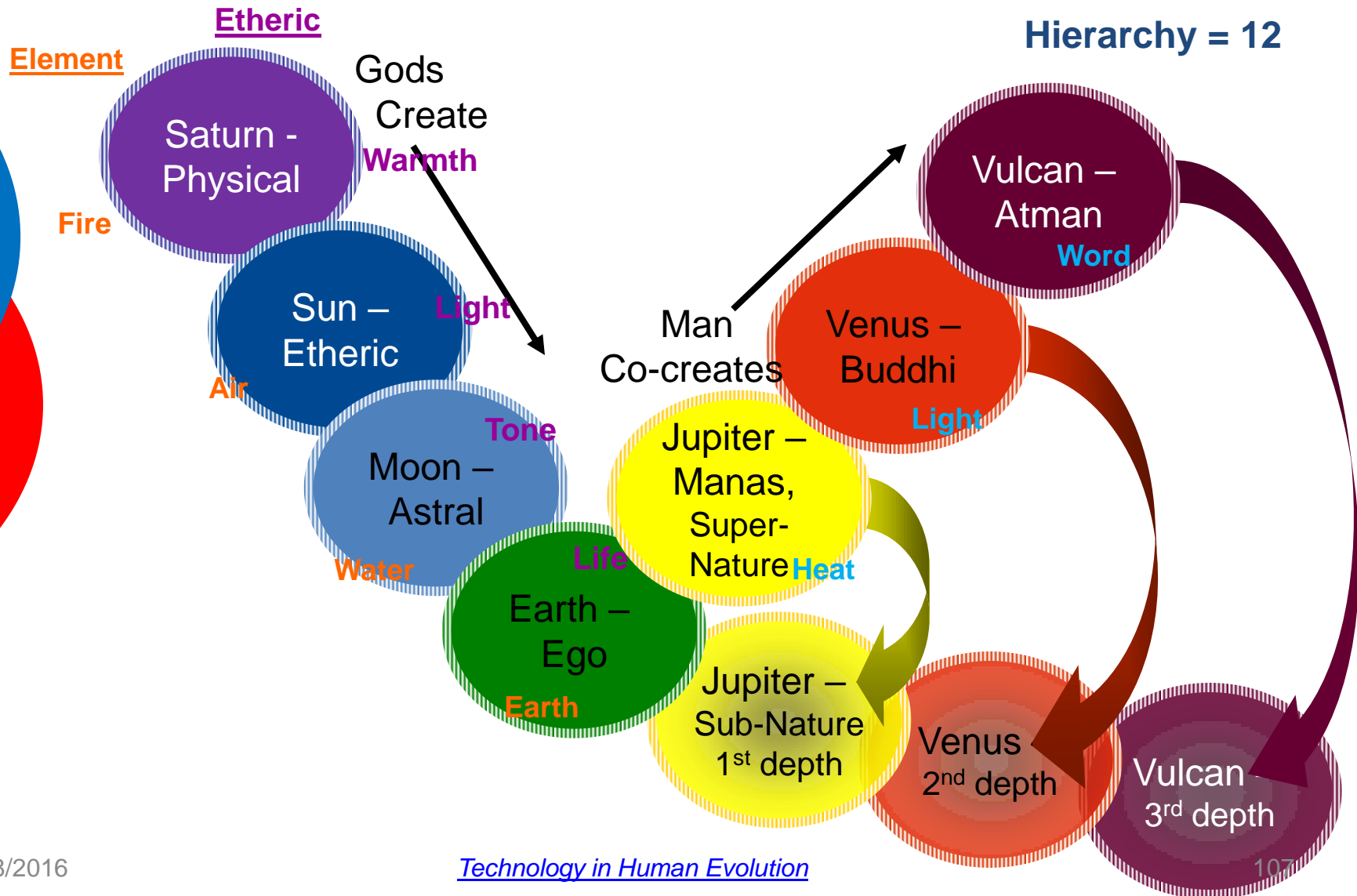
# SHOULDN'T WE TEST DRIVE THESE JUPITER BODIES?

- 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 4<sup>th</sup> C B.C., Jatta Museum, Ruvo



# 7 STAGES OF HUMAN CONDITION



# GIFTS OF TECHNOLOGY

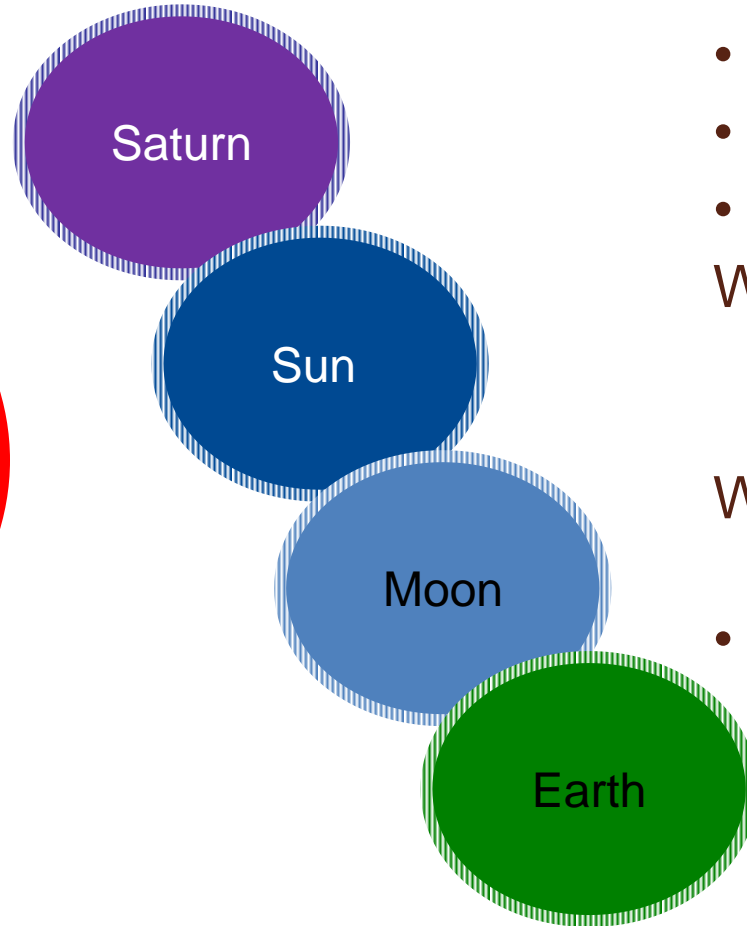
- Emancipation
    - Labor, typing, reading, ...
  - New ways of establishing relationships
    - Must permeate these with spiritual science
    - Man-Machine interface through sympathetic subtle vibrations
  - Lifts the Veils of Materialism
    - Dead vs living thinking
    - Intelligence vs Wisdom
    - 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?

# EVOLUTION OF WHO-AM-I?



- Once, all was one – warmth
- Sun: minerals separated out
- Moon: plants separated
- Earth: animals separated

What is the true human level?

- Consider both Earth and Heaven
- Earth forces: desires, instincts

When I consider my *inner life*, TFW, we are these – they are 'I'

- What happens during Jupiter?
  - Descent of Devachan done
  - Ascent of mankind (~ all of it)
    - Role of Technology to enable the ascent: earth emancipation
    - Know thou thyself!



# 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 and earth
  - 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

# 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***





# WALDORF SCHOOLS AND STAR WARS

- “I put the Force into the movies in order to try to awaken a certain kind of spirituality in young people.” – George Lukas
- The Waldorf Connection: Dr. Douglas Gabriel, <http://cosmicconvergence.org/?p=12970>



# 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



# QUESTIONS?

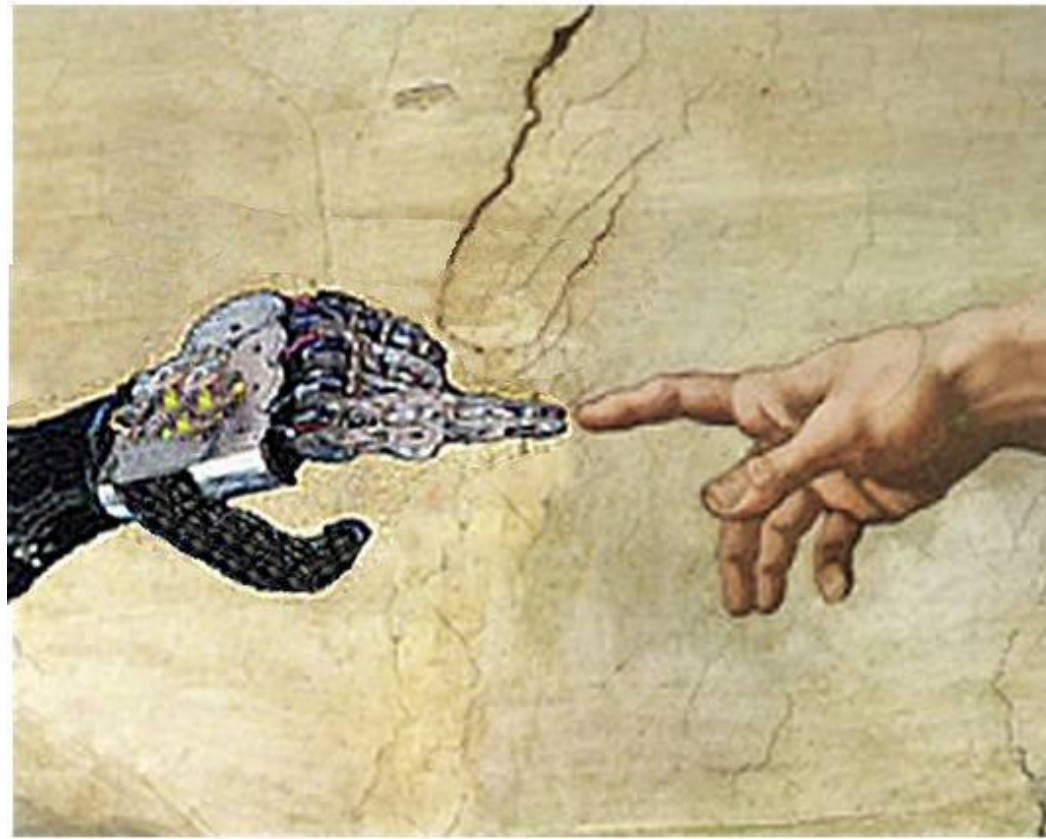
**AS ANGELS PERMEATED EARTH WITH WISDOM  
FROM THE KYRIOTETES, WHAT BEINGS WILL WE  
ASSIST TO BUILD A JUPITER PERMEATED BY  
LOVE?**

And, thank you for sharing your insights!

spirit

soul

life



**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](http://www.wfs.org)
- Blue Brain Project, [www.eetimes.com](http://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](http://www.wfs.org), pg. 42
- <http://www.cyberkineticsinc.com/>



# ADDITIONAL RUDOLF STEINER BIBLIOGRAPHY

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- 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

# IT'S NOT THE WHAT BUT THE HOW

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





# THE CHALLENGE OF TECHNOLOGY

From Liviu Plesoianu's [www.joinavatar.com](http://www.joinavatar.com)

## Human

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

## Cyborg

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

Are these really the only choices?

# K-8 WALDORF EDUCATION & TECHNOLOGY

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

