



An Esoteric Grasp of Technology

On the Road to Jupiter
Andrew Linnell



Ahriman's Incarnation

Slide 1



Stages of Consciousness

- Coma
- Dreamless sleep
- Dreaming
- Ordinary Thinking
- Imagination
- Inspiration
- Intuition



How To Know Higher Worlds

- Pure Perception (silence concepts)
 - Strengthened thru sense-free thinking
- Imaging (free up form/color)
 - Exercise KHW: growth & decay
- Discover Quality, Collate
- Find Will in Freedom and Love



Sub-Nature

- What is it?
 - “Mirror” of Super-Nature
 - Etheric
 - Warmth, Light, Tone/Chemical, Life
 - Astral
 - What does the Mirror look like?
 - “Fallen” Etheric
 - Cold, Electricity, Magnetism, 4th (Nuclear?)
 - “Fallen” Astral



Effects of One-Sidedness

- Balance/harmony of sub-nature and super-nature
 - Individual
 - Society
- Too much sub- or super-nature →
 - Pathology
- Hygiene, healing



Influence of Ahrimanic Images

- Compel thoughts & images in us
 - Example: Teacher: form image of duck
 - Student's image = Daffy Duck
- Inspire feelings
 - "Check-out" into virtual world
 - Example: man having affair in Second Life
 - Moves us to sleep thru the "real" world
 - Our soul as Sleeping Beauty awaiting the Ego, her Prince, to kiss her awake.



The Voice of Technology

- 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.]
- 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 Technology

- 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 things 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.



What Happens to the 12 Senses?

- Life, movement, balance
- Touch, smell, taste
- Thought, , ego
- Sight, ,
- Imagine being in a Virtual World
 - What is movement?, Life?



Who is Ahriman?

- Bible: Prince of Darkness
 - Usually Satan (but not in every case)
- Mephistopheles in Goethe's Faust
- Persian name, Zarathustra time
 - Duality of Light & Darkness
- Seeks to bond human to the Earth
 - Physical and Etheric bodies



Ahriman's Goal

- "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 or mind 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 evil brought by the Ahrimanic Spirits can be shed in the course of karma. The good Spirits made possible the working of karma to the end that the Ahrimanic powers might be resisted and the evil made good."

1. *The Deed of Christ and the Opposing Spiritual Powers*
2. *The World-thoughts In The Working Of Michael And In The Working Of Ahriman*



Intellectual Creativity is Waning

- Intellectual Soul development from about 800 BC to 1413 AD
 - Consciousness Soul begins 1413 AD
- Ego placed into the Intellectual Soul in the 9th century
- Copernicus, Galileo, Darwin, Brentano,
- Goethe, Schiller, Luther, Kant, Blake, Fichte, Hume, Descartes



Evolution of the Intellect

- 9th century, Ego placed in the Intellectual Soul
- Between 15th - 19th centuries, Intellect developed
 - Was full of creative power, now waning - decadence
 - Today our inventions mimic the Etheric
- 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
 - It will be necessary for man not only to become conscious once more of the spiritual in all nature, but ***able to perceive it***
 - Marko Pogacnik's Geomancy



Ahriman and the Elementals

- If elemental beings are disregarded by man, then ahrimanic powers will join forces with lower elementals and will unite with the higher elementals in their striving for unity.
 - Remedy: turn now to spiritual knowledge, e.g. what exists up in the sky is not merely the physical sun, but that with the sun's warmth and light etheric beings stream down to earth.
- Significance of spiritual knowledge for man's earthly destiny.
 - Unless man draws near to spiritual reality something completely different from what ought to happen will happen to the earth.
 - No matter how far or how deeply our sophisticated sciences of physics and chemistry investigate the material world around us, the fact remains that what is investigated will all disappear along with earth existence itself. In the last resort, chemistry and physics have no value whatever beyond the earth.
 - When the evolution of the earth comes to an end, all mineral substances will turn to dust and dissolve in the cosmos. Only what pertains to the plant, animal and human world will pass over to the Jupiter existence.

The Elemental World and the Future of Mankind,
R. Steiner, Dornach, May 28th, 1922, GA 212



Getting to know the Elementals

- The earth can only become what it was originally intended to become if man, in each epoch, tackles his task rightly
- Four elements: earth, water, air and fire (solid, liquid, gaseous, plasma) – today we see only physical substances and how they are combined or separated
 - When knowledge is no longer obtained by means of combining abstract, logical thoughts, but by uniting ourselves through our thinking with the world rhythm, then we shall rediscover the elemental beings contained in everything of a solid earthy nature
- Spirituality of the Elementals
 - Solids: cleverness, cunning, slyness, intellect
 - Fluids: sensitivities, feeling
 - Gaseous: what lives in human will
 - Plasma: moral



The New Yoga

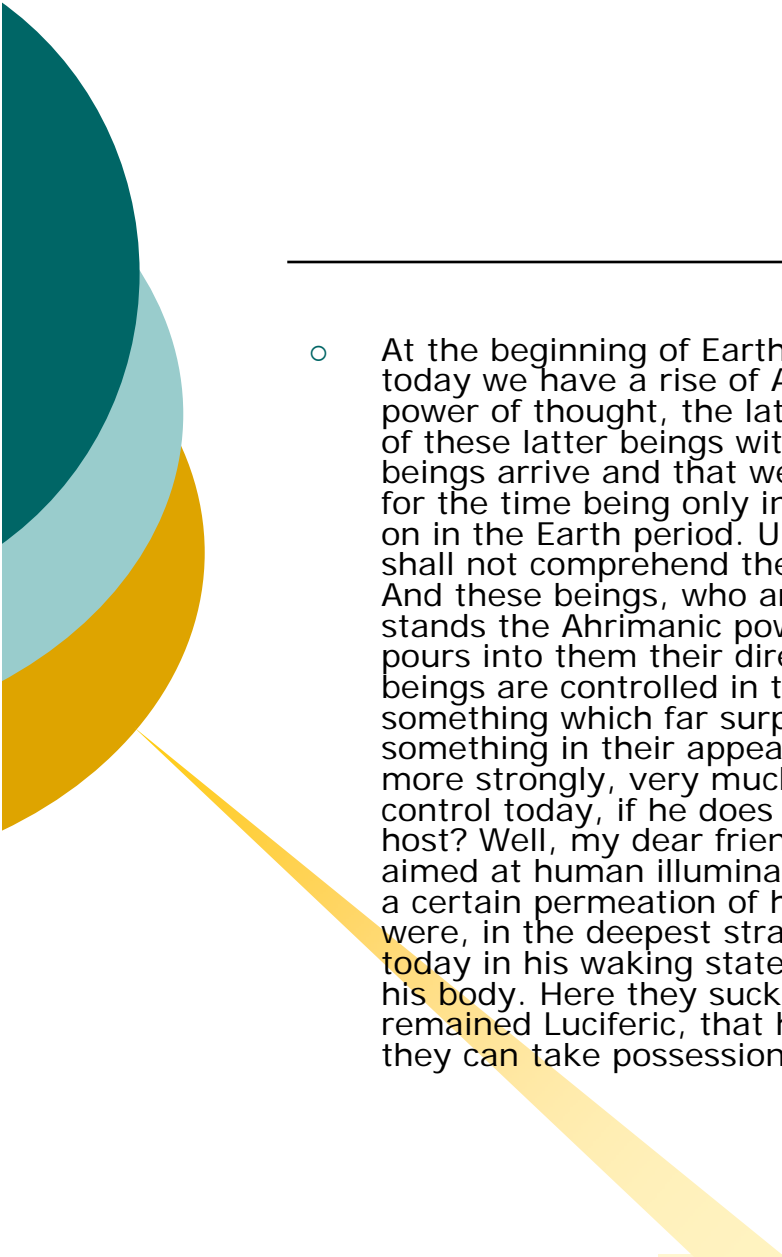
- Old Yoga: The yogi united thought and breath
 - Was able to experience his spirit-soul nature on the waves of the inner rhythm of breathing
 - Through inner exercises the yogi sought to attain what today is taken for granted because we are born with it: consciousness of the 'I' the feeling of selfhood
- New Yoga: Thinking taken out of ourselves into World
 - Thought processes set free from air breathing process
 - Awake to the breathing of the senses
 - Unite thinking with the **rhythm** of the external cosmos
 - No longer be bound up with the subject
 - In this way mankind will again gain insight into the spiritual foundation of Nature
 - Give ourselves up to the world in order to participate in all the various **rhythms** of the mineral, plant, animal and human worlds right up to the realm of the Hierarchies
 - Angels dwell in our percepts – do they dwell in Virtual Reality?



Life on Jupiter

- Our own evolution, of course, went on alongside all this, by way of preparation. If we go back to the Moon state we must say: Here the Angeloi were human beings, human beings, to be sure, with an appearance quite different from ours, for there were quite different conditions upon the ancient Moon. But alongside these Moon men, the Angeloi, we developed in a pre-state of the Earth evolution, in a very advanced state, so that we had to be taken into consideration by the Angeloi. Especially during the descending phase of the Moon evolution did we, at times, constitute a troublesome concern for the Angeloi. The same, however, is the case with us in descending Earth evolution: since the Earth evolution has entered its descending phases, other beings make themselves felt. My dear friends, it is a significant, an important result of spiritual-scientific research which is to be taken very, very seriously, that 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; but I explained to you recently what it means to be externally visible, and that man is also a supersensible being. Supersensibility these beings are very decidedly present.
- The sub-human beings whose main character consists of an impulse which strongly coincides with human willing, with the human power of will, now appear from below, as it were, whereas the hosts of forces [the Dragon] cast down by Michael came from above; and while these latter took possession of the human power of will; they unite themselves with it and are beings produced by the realm of Ahriman. Ahrimanic influences acted through those obscured consciousnesses. Indeed, my dear friends, 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 that nature which, according to Goethe's prose Hymn to Nature, comprises man. For nature, as it is conceived of in today's natural science does not contain man, but merely the human physical self.

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

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- At the beginning of Earth becoming we have to do with a 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.



Remedy

- 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.
- For education, through school and through life, in the concepts which are merely based upon nature necessity, upon the omnipotence of nature necessity, weakens the human head, and human beings become thereby so strongly passive in regard to their consciousness, that other forces are able to enter this consciousness, and human beings will fail to acquire the strength that is necessary for the reception into the human soul of the Christ impulse in its present form.

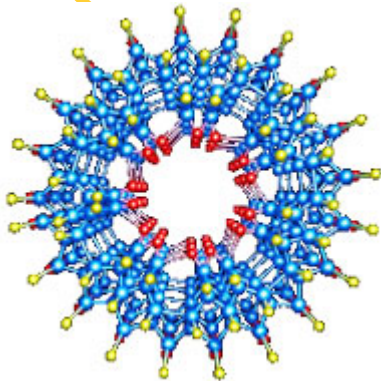


Strange Side of Good

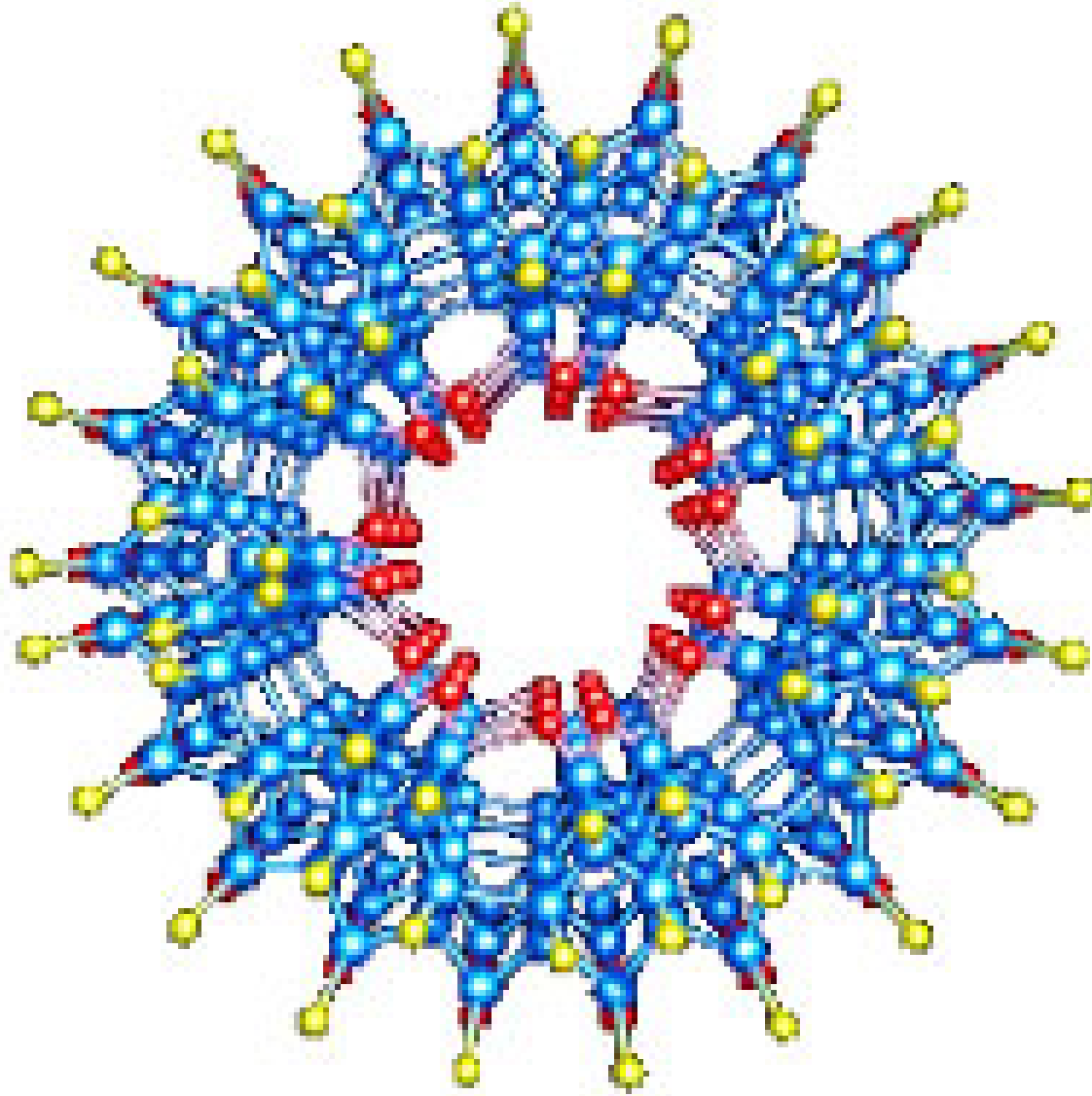
- Suffering and pain, even death, were brought by the Spirits who are intent upon man's progress
 - Decreed for man by the Powers opposing Lucifer
- Gift of Karma from Christ
 - Karma must be worked out on the *earth*. That man finds in himself the force to profit by his karma in physical existence and that advancing evolution is possible for him — all this he owes to the working of the Christ Event.
- The Light which leads out of error and sin
 - To regain full understanding of the spiritual world
 - With self-consciousness, man must learn to know Christ in His real nature and His connection with the whole universe
 - Man redeems himself *and* the Luciferic Beings through this knowledge of Christ

Nanotechnology – What is it?

- Molecular level engineering
 - 1-100 nm (1 nm is about 4 atoms)
 - Where Reynolds number, Brownian motion, and surface forces suggest bio-engineered bacterium for assembly, not fabrication
 - Bio-nanotechnology
- The laws of physics
 - “behave differently at very small scales. At the nanoscale, electrons travel more quickly through wires, transistors can mete out electrons one at a time, objects stick to each other, and light can bend matter.” TRN January 26, 2005



Example: Carbon Nanotube





Waves of Change

- “Laws” concerning the rate of change
 - Both electronic and mechanical technologies are shrinking at a rate of 5.6 per linear dimension per decade
 - Computing chips now at 65 nm with 45nm next
 - The golden age of nanotechnology is a couple of decades away
 - Promise: overcome age-old problems including disease, aging, poverty, and pollution

“... an immense technical, business, and social tsunami is coming along shortly ... companies are already being forced to deal with a blinding rate of technological change. This speed-up will likely increase, and definitely spread.” [*Leaping the Abyss: Putting Group Genius to Work*](#) Gayle Pergamit and Chris Peterson.

Application to Computing

- Shrink. Example Earth Simulator (Japan)
 - Size: 60000 cubic m → 1 cubic mm
 - Power: 13 megawatts → 2 watts
- Increase speed
 - 10-100 times faster per processor
 - "Miniaturized cooling system that uses liquid metal and electromagnetic pumps to dissipate heat from high-speed computer chips" *Forbes*
 - Grid of processors to scale
- Bio-built computers
 - Cyber-kinetic brain chips



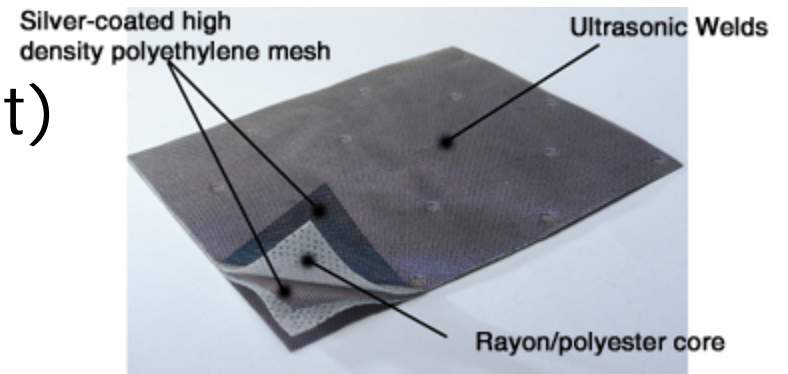
Virtual Reality

- The VirtuSphere immerses one in 3D virtual reality
- Players don a motion-tracking headset to project the visuals for virtual exploration
- They can run, jump, roll, or crawl over virtually unlimited distances without encountering real world obstacles
- The large hollow sphere sits on rollers allowing it to rotate through 360 degrees and move freely in any direction



Clothing and Equipment

- Self cleaning and self refreshing
- Foot warmers 3-20 times better
- Tennis racquets, golf clubs & balls
- Water repellent, stain resistant
 - Windows, tiles, home surfaces
 - LL Bean: NanoCare
- Skin care (e.g. Acticoat)
 - Soldiers in Iraq
- Disinfectants



Environmental Benefits



- Clean oil spills
- Clean heavy metals, toxins
- Clean water
- Non-polluting energy
- 99% efficient electric motors
- Cut electricity for illumination by 50%
- Photo voltaic paint



Molecular Manufacturing

- Electrostatic motors at 50nm
 - Converts more than 500,000 watts of power per cubic millimeter at better than 99% efficiency
 - Even more efficient at low speed and high torque
 - Functions as a DC generator without modification
 - Power can be transferred efficiently by rotating mechanical rods: a rod 100 microns in diameter can transmit 1,000 watts
- Design, prototype, test, and manufacture within a day
- Combine multiple nano-factories to make larger items
- Auto-manufacture – large quantities
- Could become as ubiquitous as personal computers
 - Desktop factories
- Use of DNA molecules: easy replication, elaborate forms, self assembly due to Brownian motion
 - Interfacing organic to inorganic substrates



DNA and Self Assembly

- Since nanofabrication is a very tough challenge, self-assembly — the spontaneous organization of matter under controlled conditions — is an attractive alternative. Paul Rothmund, a senior research fellow at the CalTech, showed how DNA self-assembly can generate arbitrary patterns and shapes at resolutions down to 6 nm. *EETimes* 11/14/2005
- Cambridge, Mass. - Bioengineering designs were on display last week [11/7/05] at the second annual International Genetically Engineered Machines design competition. Student teams from 13 universities in the United States, Canada and Europe met at MIT to describe their designs for building DNA-programmed molecular machines. The teams used components from MIT's Registry of Standard Biological Parts, dubbed **BioBricks**, for their projects. The BioBricks library lists DNA sequences that have been artificially created by bioengineers to program specific operations inside of plant or bacterial cells (see parts.mit.edu).



Medical Miracles

- More than skin deep
- Artificial red and white blood cells
- Animal manufactured blood and organs
- Tissue engineering
- System that improves the solubility of drugs so the human body can absorb medicine faster and more efficiently – genetic relationships
- Search and identify cancer cells anywhere in the body - dendrimer
- Hybrid tools and organs
 - Device to do dialysis with patient's own cells
- Expected life-span of 150 by 2025



Nanomedicine

- Nanomedicine is an important new concept in combining nanotechnology and medicine and it provides a new direction for development in those research areas. For example, new tools are being developed that permit imaging of structures at a molecular level, and high-speed measurement of the dynamic behavior of these molecular assemblies is developing. The forces produced by molecular machines as well as the forces needed to disrupt them are undergoing.
- The long-term goal of nanomedicine research is to quantitatively characterize the molecular-scale components, or nanomachinery, of living cells and to precisely control and manipulate these molecular and supramolecular assemblies in living cells to improve human health. Nanomedicine will exploit and build upon other research findings in nanotechnology and apply it to the study of molecular systems in living cells that contain a multitude of nanoscale structures, such as membrane transporters, processes such as self-assembly of protein–nucleic acid complexes, and nanomachines such as molecular motors.
- The benefits of nanomedicine include dramatically expanded knowledge of the human genome, a greater understanding of the pathophysiology of specific diseases at the molecular scale, more specific treatment of diseases, and the ability to understand the dynamic behavior of dysfunctional cellular machinery in the context of the total cell machinery.

[http://www.nanomedjournal.com/article/S1549-9634\(05\)00010-9/fulltext](http://www.nanomedjournal.com/article/S1549-9634(05)00010-9/fulltext)

Human Body Performance

- Artificial limbs
- Artificial muscles
 - At least 10 times stronger
 - "One company is using tiny crystals, about 100 nanometers across, to build artificial "bionic muscles" that are 1,000 times more powerful than human muscles." *Forbes*
- Military
 - The president of India, himself a nuclear physicist, has gone so far as to say that advanced nano-technology must be developed by his country's scientists because it "will revolutionize the total concepts of future warfare."



Nanobots

- Deliver medicinal directly to affected area
- Repair internals non-invasively
- “Surgically” remove tumors
- Manufacturing
 - Personalized
 - Self replicating
- Issues:
 - Removal from body
 - Grey ooze





NanoMachine

- Scottish physicist James Clerk Maxwell first imagined an atom-size device dubbed Maxwell's Demon in 1867. Scientists at the University of Edinburgh have made it a reality.
- "We have a new motor mechanism for a nanomachine," said David Leigh, a professor of chemistry at the University.
- A nanomachine is an incredibly tiny device whose parts consist of single molecules. Nature uses nanomachines for everything from photosynthesis to moving muscles in the body and transferring information through cells.
- Scientists are trying to unravel the secrets of nanomachines and nanotechnology

Scientists build nanomachine envisioned 150 yrs ago by Patricia Reaney, Reuters, Jan.31, 2007

Embryology and Nanotechnology

- Make changes during first 3 mo w/amniocentesis
- Deliver/alter for preferred genes
- Eugenics by class



- An end to deformities?
- Designer babies?
- Animal birthing moms?

Brain Augmentation

- Surgically implant bio-computers
- Perform calculations
- Business
 - RFID/person
 - Must have to conduct business



Sensory Augmentation

- **Artificial nerves**
 - Mimic audio & visual nerves
 - Heal blindness, deafness
- **Stem cells to (re-)grow nerves**
- **Additional artificial nerves for virtual reality percepts**
 - Mental agility to context switch

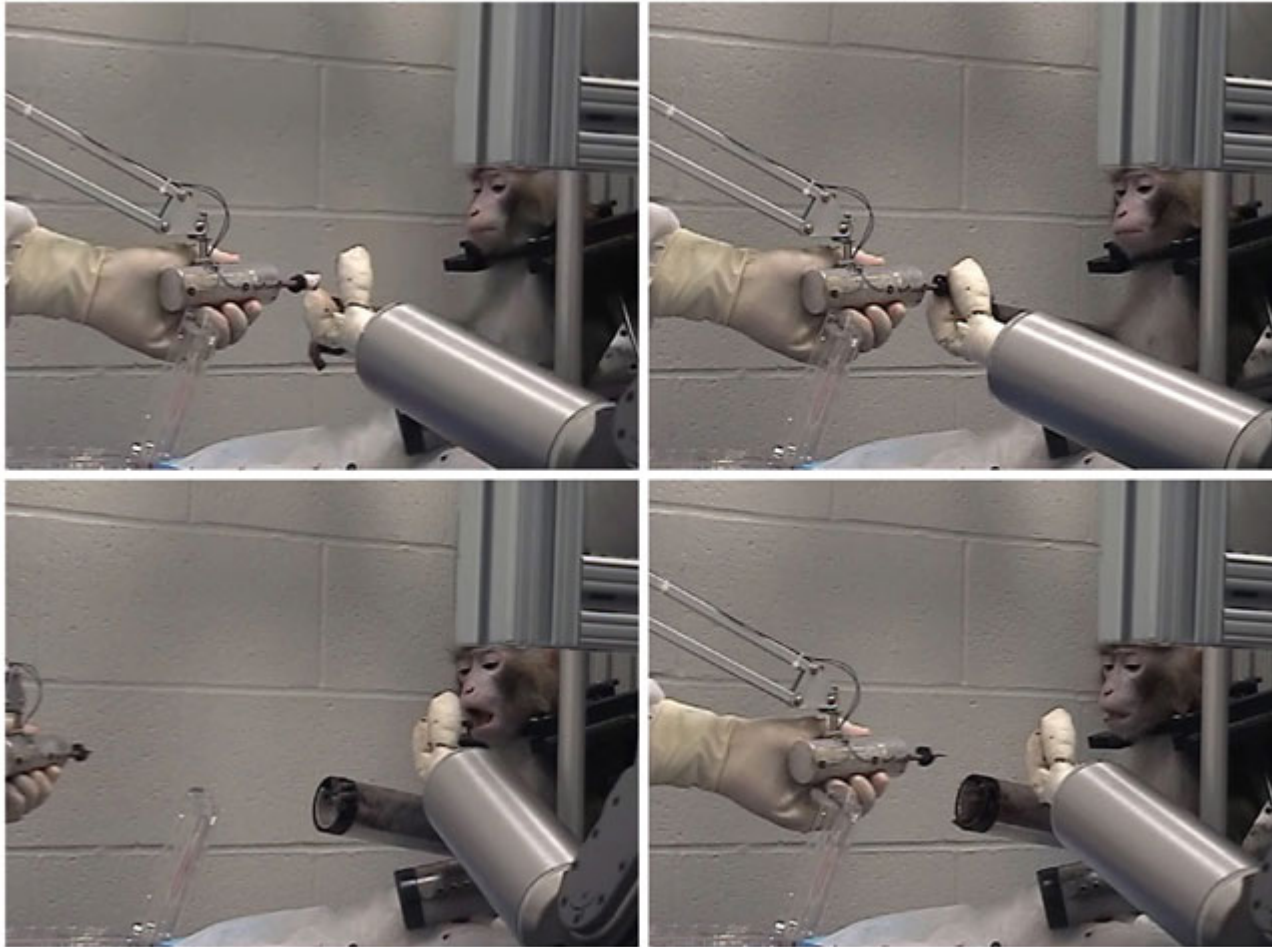
SCIENCEPHOTOLIBRARY

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Linking the Brain to Mechanical Arms



March 25, 2007

Ahriman's Incarnation

Slide 39

Brain Gate from CyberKinetics

- Sensor is implanted on the motor cortex
- External device analyzes brain signals
- Brain signals as generated are interpreted and translated into cursor movements
- Offers the user ability to control a computer with thought
- Computer moves objects
 - Robot, TV, devices



CYKN next: nerve stimulation



Respond, Restore, Rehabilitate...

Cyberkinetics Neurotechnology Systems, Inc. (OTCBB:CYKN) is a neurotechnology innovator focused on the commercialization of two proprietary platforms for direct neural sensing in the brain, real-time neural signal decoding technology and neural stimulation. The Company's mission is to commercialize products based upon these powerful platform technologies that restore function, including limb movement, sensation and communication, for those with a wide range of central nervous system conditions, diseases and injuries, such as spinal cord injury, ALS and other motor neuron diseases.

[Discover Our Technology](#)



How Would Steiner Approach This?

We must eradicate from the soul all fear and terror of what comes towards Man out of the future. We must acquire serenity in all feelings and sensations about the future.

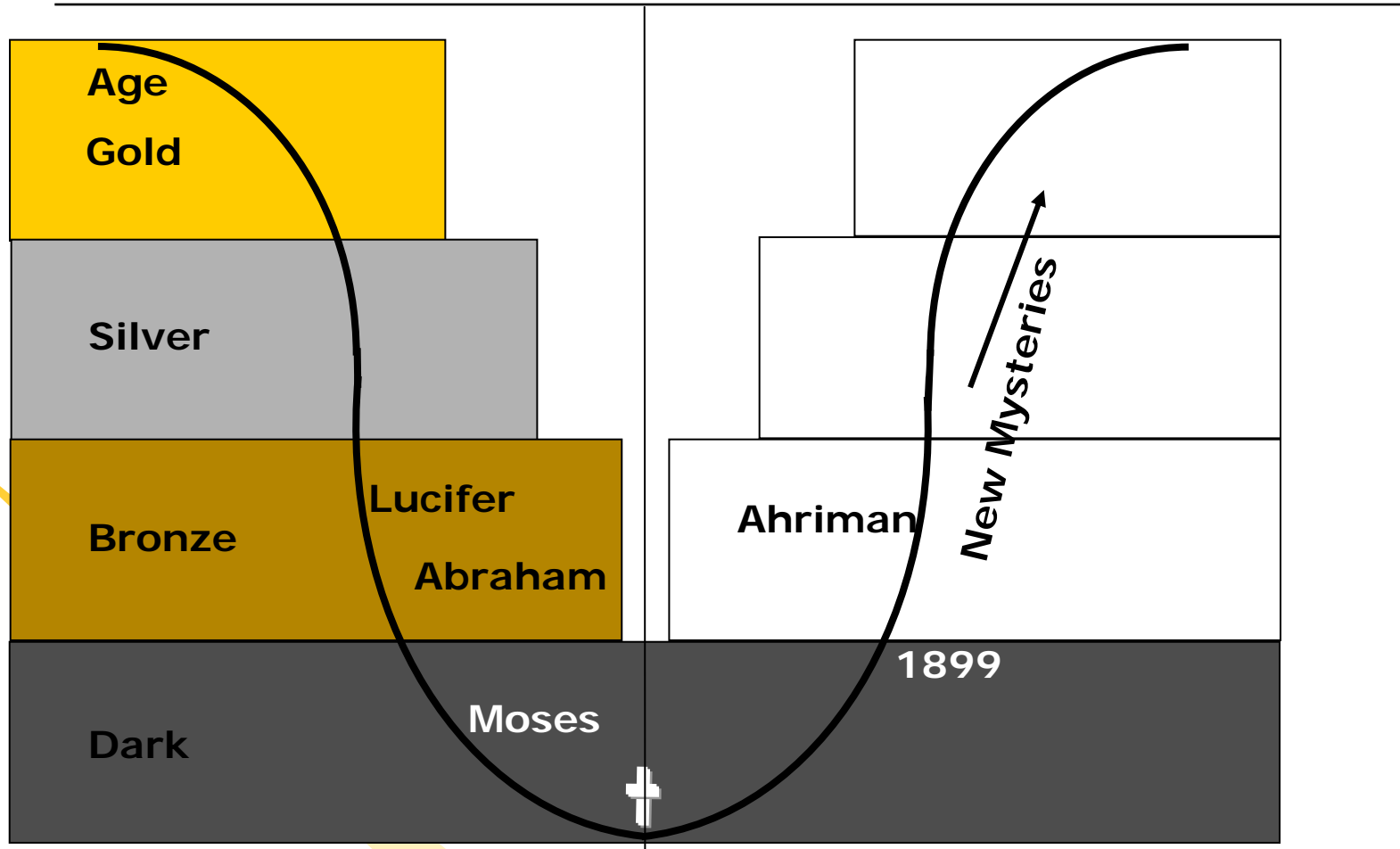
We must look forward with absolute equanimity to everything that may come. And we must think only that whatever comes is given to us by a world-directive full of wisdom.

It is part of what we must learn in this age, namely, to live out of pure trust, without any security in existence - trust in the ever-present help of the spiritual world.

Truly, nothing else will do if our courage is not to fail us.

Awaken to The Call of Michael

Post-Atlantean Diagram





The Coming Incarnation of Ahriman

- Sometime early in this millennium
 - “Before even a part of the third millennium A.D. has run its course, there will be a real incarnation of Ahriman in the West” R.Steiner, Nov.1, 1919, GA191
 - Islamic view of America as the Great Satan
- Aids to his incarnation
 - Mechanical view of the universe
 - Focus on prosperity over social 3-fold
 - Nationalism, class-ism, racism, group-ism, etc.
 - “Conserving jars of wisdom”
 - Foods to make one smart, strong, etc.
- Access to or Imitation of a Spiritual World
 - Ahriman will create a copy
 - People will be given individual insights to spirit but a view no other person will experience – no science



Ahriman's Invisibility

- Attachment of Ahrimanic powers to man
- "Human beings do not even notice
 - that they are really withdrawing from the world,
 - that they are incorporating their intellect in the world and
 - that they are creating a world next to themselves that is becoming independent." R. Steiner, *From Nature to Subnature*, Letters to the Members, GA26
- Man eating & drinking his way to cleverness



Confronting Ahriman

- “In an ether-body that has been parched by materialism, Ahriman will be able to dwell. Understanding what this implies, we shall realize that 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.”



Ahriman's Activities and Aims

- Contraction of the etheric body through ***disdain*** of spiritual.
- Man in the Fifth Post-Atlantean epoch ***confronts*** Ahriman who operates in the nerve-process, who is cold and scornful because he is bloodless; he lacks the warmth that belongs to the blood.
- Ahriman endeavors to get hold of human blood wherein human power lives.
- 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 a spiritual world



Trans-spirit

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 avoid any extended discussion of the history or credibility of religion and spirituality while focusing 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

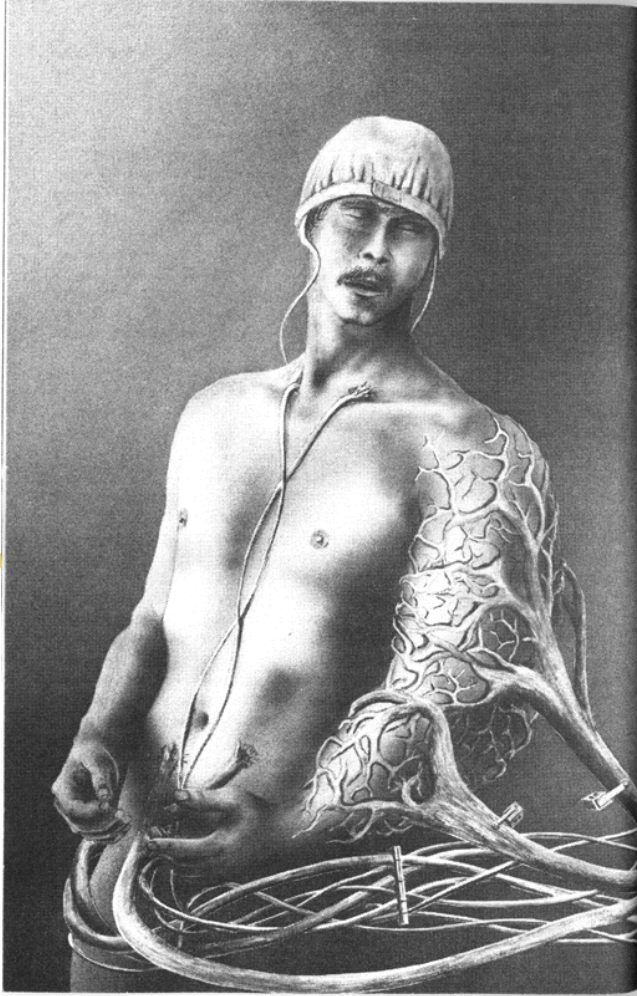


Attachment of a Second Being

“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. A different form of experience will come to the man of modern times. In his own opinion he knows ever so well; he observes the material world, uses his intellect to establish the interconnections between its phenomena and believes that all its riddles are solved in this way, never realizing that he is simply groping in a phantasmagoria. But this way of working coarsens and dries up his ether-body, with the ultimate result that the [Ahrimanic] powers, **like a second nature, will attach themselves to him.** *The Balance in the World and Man, Lucifer and Ahriman, Rudolf Steiner*

Note Similarity to Angel as a Second Being

Man-Machine Mystery?



What is the Man-Machine Mystery as seen today?

- Integration: Man-Machine
- Artificial limbs, organs, nerves, muscles
- Sensory augmentation
- Computer implantation
- Biologically compatible vibratory systems
 - RFID technology implanted in forehead
 - Required for business
 - Influence on machines



Minsky: Man and Machine

- The more we learn about our brains, the more ways we will find to improve them. Each brain has hundreds of specialized regions. We know only a little about what each one does -- but as soon as we find out how any one part works, researchers will try to devise ways to extend that organ's capacity. They will also conceive of entirely new abilities that biology has never provided. As these inventions accumulate, ***we'll try to connect them to our brains*** -- perhaps through millions of microscopic electrodes inserted into the great nerve-bundle called the corpus callosum, the largest data-bus in the brain. 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.



Minsky: Replacing the Brain

- **Almost all the knowledge that we learn is embodied in various networks inside our brains.** These networks consist of huge numbers of tiny nerve cells, and even larger numbers of smaller structures called synapses, which control how signals jump from one nerve cell to another. **To make a replacement of your brain, we would need to know something about how each of your synapses relates to the two cells it bridges. We would also have to know how each of those structures responds to the various electric fields, hormones, neurotransmitters, nutrients and other chemicals that are active in its neighborhood.** Your brain contains trillions of synapses, so this is no small requirement. Fortunately, we would not need to know every minute detail. If that were so, our brains wouldn't work in the first place. In biological organisms, generally each system has evolved to be insensitive to most details of what goes on in the smaller subsystems on which it depends. Therefore, **to copy a functional brain, it should suffice to replicate just enough of the function of each part to produce its important effects on other parts.**



Steiner on Man and Machine

- Mystery by Region
 - East: Eugenics
 - Central: Hygienic
 - West: Man-machine
- No uniting of emotions from work with machines
 - Future: no longer able to bestow warmth from work on goods produced
- Man will increasingly come to see his body as his vehicle through life



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 spark that has no detectable properties. I have no patience with such arguments.** We should not be searching for any single missing part. Human thought has many ingredients, and every machine that we have ever built is missing dozens or hundreds of them!



Minsky: Evolution's Future

- In the past, we have tended to see ourselves as a final product of evolution -- but our evolution has not ceased. Indeed, we are now evolving more rapidly-- although not in the familiar, slow Darwinian way. **It is time that we started to think about our new emerging identities.** We now can design systems based on new kinds of "unnatural selection" that can exploit explicit plans and goals, and can also exploit the inheritance of acquired characteristics.
- Once we know what we need to do, **our nanotechnologies should enable us to construct replacement bodies and brains** that won't be constrained to work at the crawling pace of "real time." The events in our computer chips already happen millions of times faster than those in brain cells. Hence, **we could design our "mind-children"** to think a million times faster than we do. To such a being, half a minute might seem as long as one of our years, and each hour as long as an entire human lifetime.



Ray Kurzweil

- The Age of Intelligent Machines,
 - Best Computer Science Book of 1990
- The Age of Spiritual Machines
 - When Computers Exceed Human Intelligence, Viking, 1999
- Fantastic Voyage: Live Long Enough to Live Forever Publishers Weekly 2004



Ray Kurzweil's Vision of the Future

- In Kurzweil's future, a symbiotic society of human and computer minds becomes a booster rocket for progress. Kurzweil says brain-augmented scientists, tempered by vocal Luddites, will cure disease and eliminate hard labor. Designer drugs and self-replicating nanobots will course through our veins to beef up our mortal hardware. Eventually, we'll lose the "meat" altogether: A convergence of brain-scanning technology and machine intelligence will enable human minds to be uploaded into the computer and live indefinitely. <http://www.wired.com/wired/archive/9.04/kurzweil.html>



Who Else Speaks?

- *“The machine image objectivizes at a stroke whatever it touches by emphasizing its inherent otherness from man, its non-communicability.*
- *In the magical world-view of the Old Gnosis, all things - animal, plant, mineral - radiate meanings; they are intelligible beings - or the natural faces such beings put on for us in the physical world.*
- *But for Newton, the celestial spheres comprise a machine; for Descartes animals become machines; for Hobbes, society is a machine; for La Mettrie, the human body is a machine; eventually for Pavlov and Watson, human behaviour is machine-like.*
- *So steadily, the natural world dies as it hardens into mechanistic imagery.”*

Theodore Roszak, Where the Wasteland Ends

Lucifer, Christ, and Ahriman

- Mystery of Golgotha, there were 3
 - Lucifer recognized Christ - Gnosis
 - Christ's battle with Prince of Darkness
 - Ahriman, the Prince of Darkness, mocks Christ
- Today, anything not permeated by Christ impulse will be drawn into Ahriman
- Karma as a healer





Lucifer and Ahriman

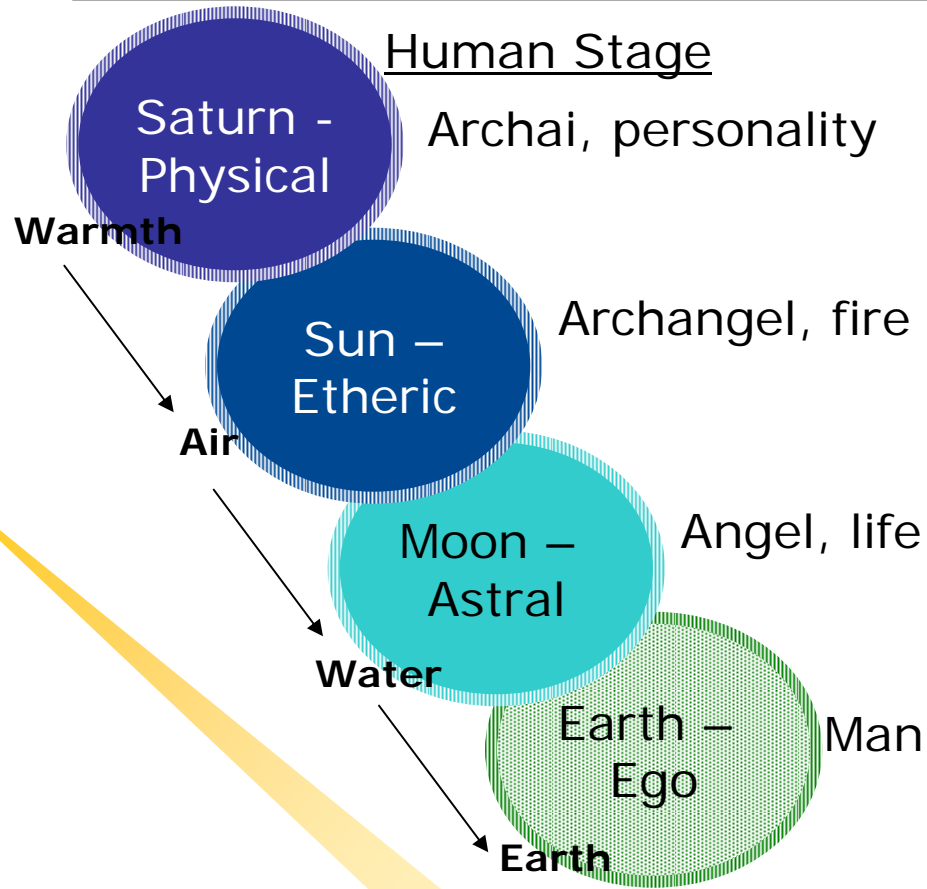
- Wants ego and astral
 - Light, warmth, life
 - Operates in breath
 - Aim:
 - Human souls leave Earth with Lucifer
- Wants physical and etheric
 - Dark, cold, death
 - Operates in nerves
 - Aim:
 - Human disdain for spirit
 - Egoless humans inhabit Earth



Why is the body important?

- “He sold his *soul* to the devil.” Does anyone care about the body?
- Atman is the transformation of the flesh to spirit
- And the Logos became flesh and dwelt among us
- And the flesh is to become Logos and dwell among the spiritual beings
 - Ahriman’s aim is to prevent this

Pre-Earthly Conditions



Hierarchies Activity on Old Moon

Worked upon

Hierarchy, Spirit of

Dynamis, movement

Exusia, form

Archai, personality

Retarded archai

Archangel, fire

Retarded archangels

Astral

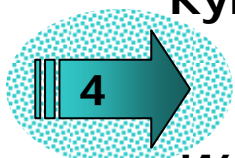
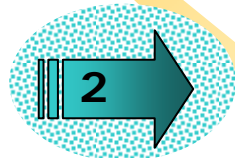
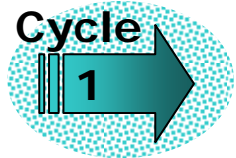
Etheric

Human Level

Physical

Angel, twilight, life

Old Moon
Cycle

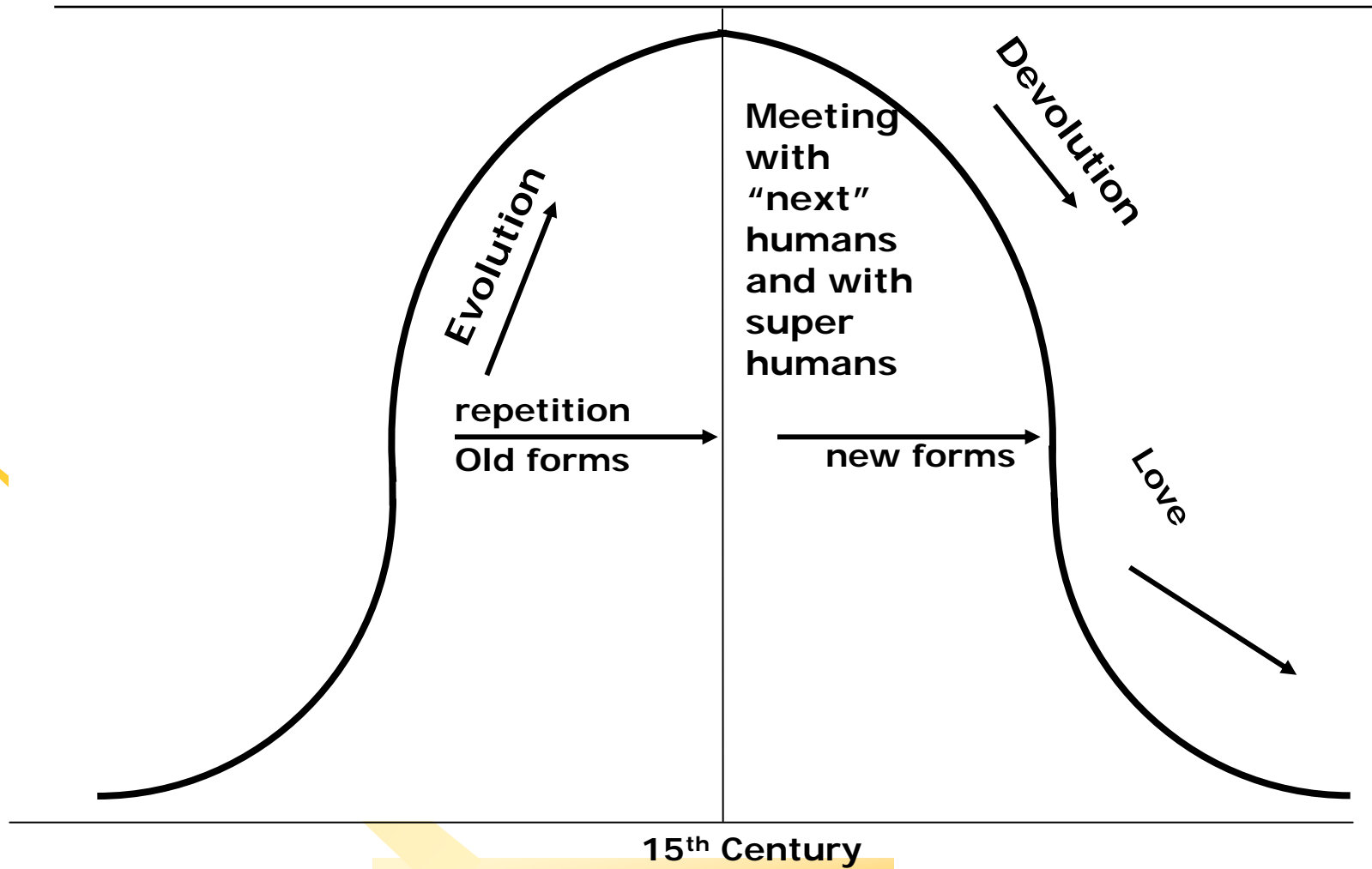


Kyriotetes, wisdom



We enter as annoyance

Historical Picture

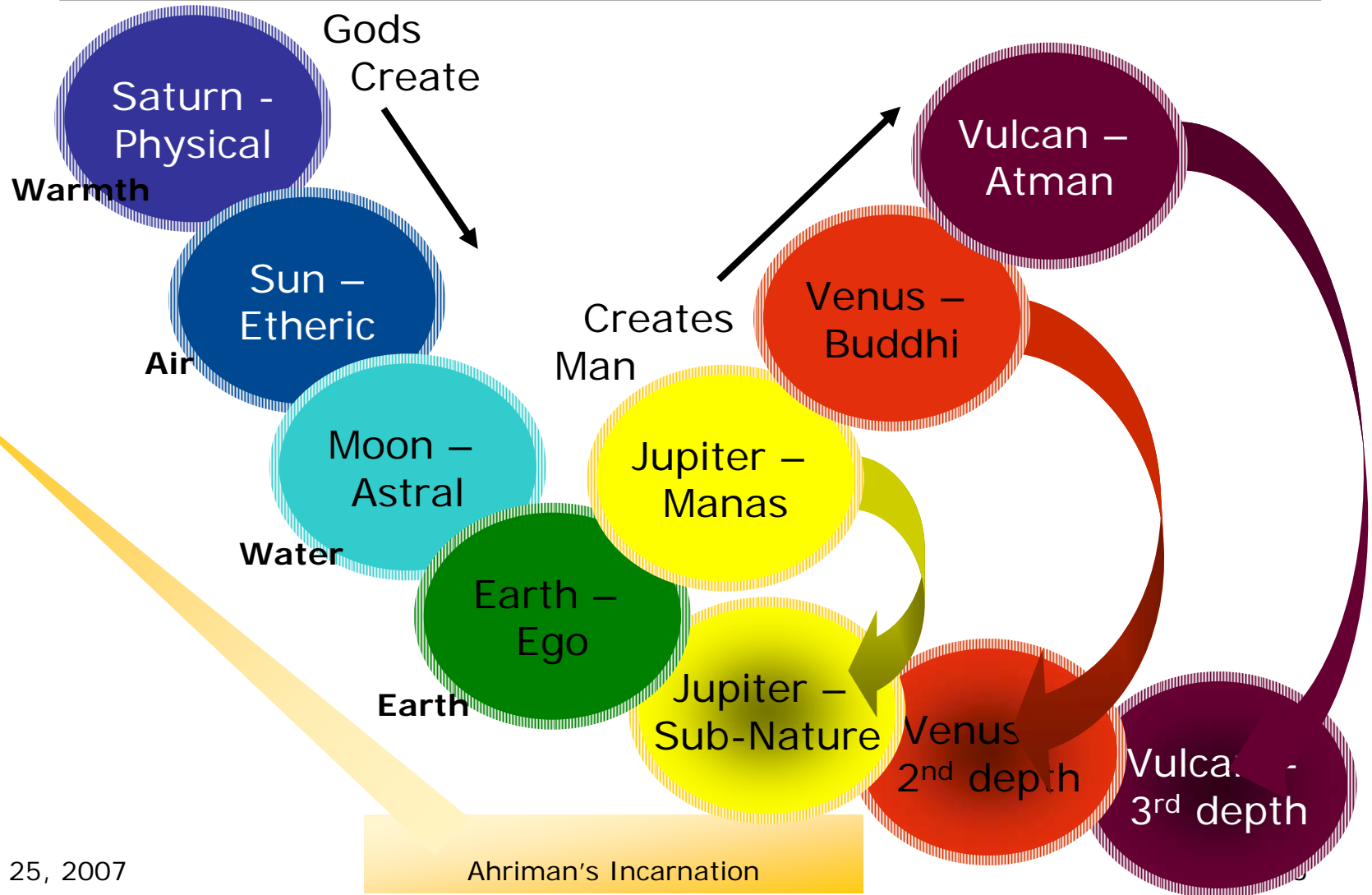




The 6th Cultural Epoch

- *Preparing For The Sixth Epoch* Rudolf Steiner, 1915, GA 159
- "But each epoch must at the same time prepare, bear within it in a preparatory stage, what is to come in the ensuing period of culture."
- "In the sixth epoch the well-being of the individual will depend entirely upon the well-being of the whole. [One] will not only feel pain such as is caused today by the sight of poverty, suffering and misery in the world, but such individuals will experience the suffering of another human being as their own suffering."
- "Collective beliefs that exist in so many forms today among the various communities will no longer influence those who constitute the civilized portion of humanity in the sixth epoch of culture. Everyone will feel that complete freedom of thought in the domain of religion is a fundamental right of the human being."
- "Men in the sixth epoch will only be considered to have real knowledge when they recognize the spiritual, when they know that the spiritual pervades the world and that human souls must unite with the spiritual. What is known as science today with its materialistic trend will certainly not be honored by the name of science in the sixth post-Atlantean epoch. It will be regarded as antiquated superstition."
- "The whole purpose of spiritual science is to prepare in this sense for the sixth epoch of culture. We try to cultivate spiritual science in order to overcome materialism, to prepare the kind of science that must exist in that epoch."
- "The height of post-Atlantean culture is reached in the 5th epoch. What will follow in the 6th and 7th epochs will be a descending line of evolution."

7 Stages of Earth Condition



March 25, 2007

Ahriman's Incarnation



Steiner's View of the Jupiter Road

- If the forces of death did not exist in the Universe, man would not be able to evolve the Spiritual Soul, he would not be able to receive, — as he must receive, in the further course of his earthly evolution — the forces of the Spirit-Self, Life-Spirit and Spirit-Man. Man must pass through the Spiritual Soul if he wishes to absorb in his own way the forces of Spirit-Self, Life-Spirit and Spirit-Man. To this end he must completely unite the forces of death with his own being during the course of the fifth Post-Atlantean age, that is to say, by the middle of the third millennium A.D. And he can do so. But he cannot unite the forces of evil with his being in the same way. I say again not in the same way. The forces of evil are so ordered in the great Universe in the Cosmos that man will be able to receive them into his evolution only during the Jupiter period, even as he now receives the forces of death.

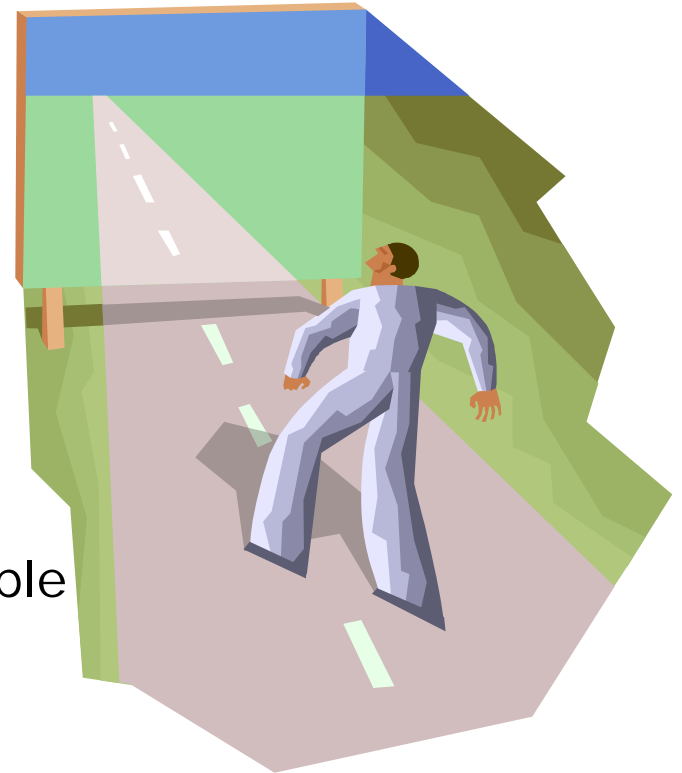
What should we do?

- #1: Develop Spiritual Science
- #2: Recognize Etheric Christ
- #3: Free Religious Soul Life
- #4: Brotherhood in Bodily Life
- Delve into sub-nature must be equally met by rise into super-nature
- How something is introduced matters
 - Spiritual scientists must work in these fields
- Read the work of the Angels in our astral body
- Must not allow prosperity to be equated with what is morally good
 - Competitive wealth pursuits leads to decadence



What else should we do?

- Develop a New Yoga
 - Breathing in the senses
 - Inner – Outer relationship
 - Angels dwell in our percepts
 - Will VR cast out our angels?
- Cultivate Moral Free Will
- Overflow with Agape Love
 - “I love my computer” impossible
- Develop the New Mysteries
 - Includes Man-Machine
- Know that we are on the road to Jupiter

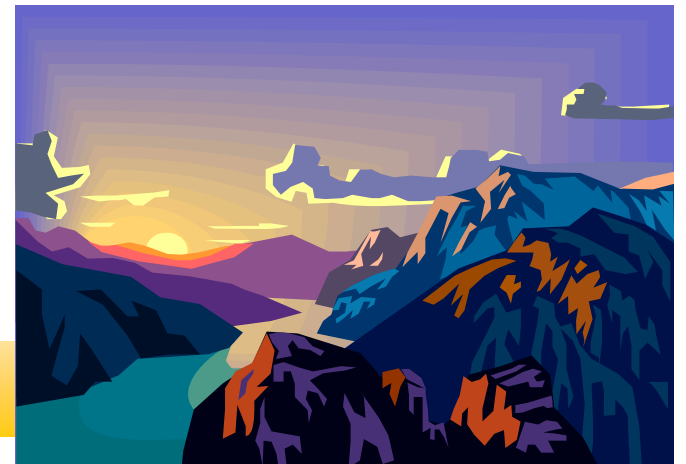


The Road to Jupiter

- We are becoming the 10th hierarchy
- We will become 7-fold beings
 - Each step will have resistance
- We will unite with the other 9 hierarchies to create Jupiter
 - It will be stage for next humans
 - Will it be a sub-nature universe?
 - Will what we obtain from Ahriman be vital to creating Jupiter?

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Backup slides

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Ahriman's Incarnation

Slide 71



History Repeats

- Now in the Egyptian/Chaldean period
 - Gives us the ideas of what to create
 - 600 year “lives” – how long our archive will last
- Imitation of the Etheric
- What we do with the mineral world, that we shall ourselves become in future times. What we do with the plant world, with the animal world and with men, that too, 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. If a man does nothing with what he can in this way to draw into his soul from outside, then his soul remains empty.
- It must therefore be possible for mankind to spiritualize — as far as this can be achieved — the four kingdoms of nature, of which man is one.



The Future

- When the Freemason was working with his fellow-builders, he knew: In future times the mineral world will be spiritualized; to build means nothing else than to spiritualize the mineral world. He knew that the edifice would one day become the content of his soul.
- What we ourselves prepare and make ready in the world — that is what will constitute our future existence
- 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.
 - The Lemurian epoch was destroyed by fire, the Atlantean by water; our epoch and its civilization will be destroyed by the War of All against All, by evil. Human beings will destroy each other in mutual strife. And the terrible thing — more desperately tragic than other catastrophes — will be that the blame will lie with human beings themselves.



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- Also,
- Battle for the Etheric, Nick Thomas, 1995



Further Work

- Angels active in our sensing – what impact does Ahriman have?
- Can Ahriman perceive the activity of angels? Of archangels?
- From where in the human is Ahriman restricted?
- What relationship do the next humans have to Ahriman and Ahrimanic “archangels”?