

Article

# A Hundred Years of Archetypes: When You Face Reality, You Know "Nothing" Part I

Iona Miller\*

## ABSTRACT

Jung's first mention of the term archetype was in the 1919 text *Instinct and the Unconscious*. We've had nearly a hundred years of archetypes, as such. However, ancient cultures, such as the Gnostics knew them under other names, such as the Archons. And we have our own modern concepts, frames, and terminology for nature's dynamics. We don't need to parrot Jung, or congratulate ourselves for climbing over the fence of his theories. When we face naked reality, we know "Nothing." We need to extend these notions in a way that is relevant to our current experience, nomenclature, and ethos. Perhaps, with the right terms we can begin asking the right questions that open the way for a thriving humanity.

Part I of this article addresses the topics of Coherence, Decoherence & Resolution; The Light of Nature; Virtual Holograms & Network Theory; Holographic Memory; Source Intelligence; A Hundred Years of Archetypes; What the Flux? Light in the Darkness; Seeds of Light; Holographic Hyperchannel; Archetypes, Holoarchy & Meta-Genetics; In Synch; Resonant Filters; Remodeling Process.

**Key Words:** coherence, decoherence, resolution, virtual holograms, archetypes, holographic archetypes, liquid crystals, superposition, consciousness, quantum flux, zero point.

## INTRODUCTION

### Coherence, Decoherence & Resolution

*Not for a moment dare we succumb to the illusion that an archetype can be finally explained and disposed of. Even the best attempts at explanation are only more or less successful translations into another metaphorical language. (Indeed, language itself is only an image.) The most we can do is dream the myth onwards and give it a modern dress. --Jung*

*People like us, who believe in physics, know that the distinction between past, present and future is only a stubborn, persistent illusion. --Albert Einstein*

*First, what is an archetype? Archetypes can be understood and described in many ways, and in fact much of the history of Western thought from Plato and Aristotle onward has been concerned*

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\* Correspondence: Iona Miller, Independent Researcher <http://ionamiller.weebly.com> E-Mail: [iona\\_m@yahoo.com](mailto:iona_m@yahoo.com)  
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*with this very question. But for our present purposes, we can define an archetype as a universal principle or force that affects--impels, structures, permeates--the human psyche and human behavior on many levels. One can think of them as primordial instincts, as Freud did, or as transcendent first principles as Plato did, or as gods of the psyche as James Hillman does. Archetypes (for example, Venus or Mars) seem to have a transcendent, mythic quality, yet they also have very specific psychological expressions--as in the desire for love and the experience of beauty (Venus), or the impulse toward forceful activity and aggression (Mars). Moreover, archetypes seem to work from both within and without, for they can express themselves as impulses and images from the interior psyche, yet also as events and situations in the external world.*

*Jung thought of archetypes as the basic constituents of the human psyche, shared cross-culturally by all human beings, and he regarded them as universal expressions of a collective unconscious. Much earlier, the Platonic tradition considered archetypes to be not only psychological but also cosmic and objective, as primordial forms of a Universal Mind that transcended the human psyche. Astrology would appear to support the Platonic view as well as the Jungian, since it gives evidence that Jungian archetypes are not only visible in human psychology, in human experience and behavior, but are also linked to the macrocosm itself-- to the planets and their movements in the heavens. Astrology thus supports the ancient idea of an anima mundi, or world soul, in which the human psyche participates. From this perspective, what Jung called the collective unconscious can be viewed as being ultimately embedded within the cosmos itself. --Richard Tarnas*

## **The Light of Nature**

*By moving to a field model, Jung's view of the archetypes of the collective unconscious can be reformulated. Each archetype can be seen as a node embedded within the larger context of a polycentric whole, with sets of links or connections weaving the archetypes into a network that has scale-free properties. -- Joseph Cambray, Synchronicity.*

## **Virtual Holograms & Network Theory**

Bootstrapping from Pribram and Bohm that both matter and consciousness are a single field of reality, we can revision archetypes as holographic projections of consciousness, fractal involved series of harmonic radiant energy fields -- holographic self-organizing nets, electrodynamic patterning. Everything responds to a consciousness field by becoming more ordered. The stronger or more coherent the consciousness field, the more the order is evident.

Such entities have no independent existence as such. Rather, they are abstracted from the flowing movement, arising and vanishing in the total process of the flow. Every archetype is a hologram of all that exists. The whole reflects back to us ageless, collective wisdom grounded in countless individual experiences, as an unrelenting imaginal kaleidoscope of images.

Hub theory developed in network science but provides a viable metaphor for the psychic field

and archetypes. Network theorists have discovered a new and unsuspected order within highly linked networks, one that displays an uncommon beauty and coherence. Arising as a complex network, such connections are not random. If they grow large enough each node has roughly the same number of links as any other node over time. Highly linked nodes, or hubs, are the defining characteristic of the network, not just an anomaly but an organizing principle for engineered and natural systems alike.

The strongest connections (among symbols) are hubs, with less-connected nodes clustering around them like planets gather around a star. The new model reflects the existence of hubs in real-world networks, creating a tool for scientists to map and explore all manner of complex systems in ways they had never thought to before. Mapping a system, with its patterns and details, helps us understand its behavior and degrees of randomness or uncertainty in a system. (Barabási).

Engineers use control theory to predict how systems will respond to various inputs. Similar equations are used to map networks. Like prediction, control requires evaluating an object as a system with nodes of varying importance. If we can look at any network, not just engineered ones, we can find those control nodes. Among the thousands of proteins operating in a cell, researchers found the steering wheel, the gas pedal and the brake:

Control nodes take instructions or signals from outside the network (for example, a foot on the gas pedal) and transmit them to nodes within the network (the fuel-injection system). To find them, Liu borrowed an algorithm, developed by Erdős and Rényi five decades prior, that acts as a signal moving through the network. It starts at one node and follows a random edge to another node, at which point it “erases” every other edge but the one it came in on and the one it will go out on. The algorithm runs through the entire network over and over until it finds the minimum set of starting points needed to reach every node in the system. Control these starting points, and you control the entire network. (Mone)

They found that denser, more interconnected networks tended to have fewer control nodes per capita. For instance, the brain or network of genes control the system through such nodes. A small percent of connections control the network. The more data scientists feed into the model, the better they can map connections in the network and the fewer control nodes they might need to operate the system. Theory applies to total control of a network. Scientists who want partial control—say, to elicit a particular protein expression within a cell—would need to master far fewer nodes. As in the case of archetypes, finding the points of control is one thing. Actually exerting influence over a given network is an entirely different challenge.

The first breakthroughs will most likely take place in medicine. By identifying control nodes in cell growth systems, scientists could return mature cells to their embryonic state, creating a new source of stem cells. “Some diseases are all about lack of control,” Barabási says. “If you were able to gain control over them at the cellular or neuronal level, you might be able to cure the disease.” Jung claimed the gods have become diseases, so interventions at this level tap into the archetypal control system. Whether that is 'good' for us or not remains to be seen. Understanding how we operate probably is. Hermes encourages and inspires us to do so.

## Holographic Memory

We retain memories as superpositions of possibilities. Both we and the entire universe also retain memory as dynamic structure. The whole body is memory.

The principle of superposition governs how waves interact. Coherent superpositions of optical wave fields include holography. Superposition of wave fronts and entanglement may be the holographic blur of potentials, a superposition of elemental holograms. We can learn to interpret the internally sensed holographic image data involving the so-called empathic and psychic capabilities. We all have and use that capacity, but usually without being conscious of it, let alone accessing it in an organized and consistent fashion.

How do receptive fields at the microdendritic processing level decode such information? An elementary form of perception is implicit in this field, due to its indivisible motion and holographic properties, when taken at the null scale of time. The hierarchical dynamics of the brain imposes the scale of time on this field. Scale implies quality. We can conceive of the brain as a reconstructive wave within a holographic field (Robbins, 2002). The brain processes information in wave-frequency patterns suggesting human memory could hold amazing amounts of information "in storage," and, using the same holographic model, be able to access and recall a memory as a three-dimensional image.

Geneticist Mae-Won Ho says the memory of our body, inhering in the liquid crystalline continuum, exists in a quantum holographic form, distributed over the entire liquid crystalline medium -- the whole body. This brain-supported wave is specific to the past, i.e., to a composite of past "states" of the field taken at a certain scale of time. It is simultaneously a specification of the subset of the field relatable to the body's action. Memory is delocalized not only across the entire brain, but throughout the entire body.

The liquid crystalline continuum may function as a quantum holographic medium, recording the interference patterns arising from interactions between local activities and a globally coherent field. Laszlo (1995) suggested that the "zero-point field" of the universe functions as a universal holographic medium, recording the experiences of all the particles, each of which is subject to influences from the rest of the universe as well as feedback from the particle's own activities on the universal medium. If the organism is coherent, then the conditions are there for a quantum holographic (distributed) memory stored in the liquid crystalline continuum of the body itself.

During this writing (Nov. 2011), Tamar Levin, in *Journal of Consciousness Exploration & Research*, Vol. 2, No 9 (2012), proposes an integrative framework for conceptualizing human consciousness and compliments it with existing research data. The framework is based on the holographic and trans-disciplinary worldviews and their implied implicate-explicate order and the holographic knowing-becoming-experiencing-valuing human being who interacts interdependently with/within different levels of reality. The implicate order is a domain of reality characterized by flux and potentiality, whereas explicate order is the order of stable phenomena and actuality.

The framework conceptualizes universal consciousness as a fundamental part of reality/universe that complements physical potentialities and brings them to actual physical states. It regards human consciousness as both structure and system, state and process, means and end, experience, information and energy, having a metaphysical /spiritual /implicit /implicate layer and a physical/ material /explicit and / explicate layer expressed via biological, chemical, and physical processes. (Levin)

It also considers human consciousness as incorporating inward-outward 'space' processes and a backward-forward 'time' system's view expressing/influencing different modes of thinking, feeling, and behaving, and personal and transpersonal elements. The framework focuses on the unique functions, and interactions in heart-soul and brain-mind relations and their effects on states of consciousness. The subjective nature of consciousness is conceptualized in terms of the essence of individuality manifested by the root of the soul, the genetic spiritual-DNA code, and the individual's historic evolution through different life-cycles.

### **Source Intelligence**

Memory may also store in a nonlocal ambient collective quantum holographic field, accessible but delocalized from the individual in the virtual vacuum. A vacuum is not empty, but full of "virtual particles" that are continuously fluctuating in and out of existence. Lit up with coherence, the world appears as the infinite realm accessed by mystics, clairvoyants, and artists.

Stanislav Grof, a psychiatrist, links non-ordinary states of consciousness and archetypal experiences with the holographic model. The semi-permeable membranes of our cells exchange information with the interstitial spaces around them. In much the same way, the body as a unified and holographic structure exchanges information with its surrounding environment.

An image is encoded as the superposition of one main approximation. Holographic reconstruction results from the superposition of the spatial coherence wavelets that carry the marginal power spectrum. All fields of consciousness emanating and radiating from any zero-point singularity interpenetrate each other. Thus, they are essentially in the same place everywhere. The electron is not a particle that exists continuously but is something coming in and going out and then coming in again. The electron itself can never be separated from the whole of space, which is its ground.

Since consciousness is the fundamental quality of the zero-point center of spin momentum in absolute space, each such "singularity" is potentially conscious as is every zero-point center of all fractal involved information/energy fields radiating from it, ad infinitum. Spin creates interference in the form of spectral holographic projections of compressed energy in time, which manifest in the form of images. This image dimension underlies and supports the volume dimension. Different levels of reality correspond to different proportions and combinations of images and volumes.

The central spiral vortex crossover point (all adjoining toroidal fractal involved fields) is what physicists call a "twistor" or a "wormhole". This conceptual synthesis unites psyche and matter

in a dynamic holographic concept of archetypes and archetypal images as we move through the 21st Century.

## **A Hundred Years of Archetypes**

The year 2012 marks the hundredth anniversary of "archetypes" as an evolving psychological model of the qualities and dynamics of our core existence. As early as 1912, Jung referred to 'primordial images' to describe motifs of myths, legends, and fairy tales that have a universal character and appear as images or perceptual patterns. Many myths are religions we no longer believe.

In 1917 he wrote of 'dominants of the collective unconscious' which he characterized as 'nodal points' of psychic energy. Jung compared psyche's luminous experiences with the light impressions described by the alchemists. Rather than looking to heaven, the alchemists searched for the divine in the earth, matter, their bodies, the feminine and sexuality.

Light itself is an archetype. The photon is a measure of mass because the observer is made of light. The photonic field is the attractor that cannot be destroyed because its function is to continually decay zero point into matter or change - nothing into something by evolving form through linear time.

Psyche is world; psyche is cosmos. It is the crucible in which we live. Archetypes are not separated or isolated from existence and being (like disincarnated souls or distant Olympians). They are deathless yet evolving. Archetypes are constellations that psyche and cosmos have in common, that inform our relationship to the whole. These archetypes then shape our common dreams, religious feelings and experiences with "godlike" forces in our life.

Jung's notions of a heroic, striving Self have been transcended with imaginal, nonlinear models of consciousness, archetypes as holographic strange attractors and healing fictions. Jungians have explored monist and polytheistic approaches to the psyche, becoming less interested in "heroic" control and conquering and more desirous of deepening interrelationship and finding soulful meaning.

When Jung began discussing archetypes, there was no neurology or DNA science. Brain physiology was unknown and quantum mechanics was just emerging, so he groped for words like 'heritability' and 'neural substrate' to describe his observations of pervasive patterns in both psyche and matter, intuitively recognizing them as different facets of the same phenomena. His collaboration with physicist Wolfgang Pauli linked his theory with those of quantum physics, and suggests we continue to mine that vein for its psychological gold.

In *The Neurobiology of the Gods*, Goodwyn asks, "Can 'spiritual' images and feelings be understood on a neurobiological level without dismissing their power and mystery?" His multidisciplinary approach includes, research in evolutionary psychology, neuroanatomy, cognitive science, neuroscience, anthropology, mental imagery, dream research, and metaphor theory, but lacks a necessary root or basis in physics -- particularly the vacuum physics of subspace or absolute space.

## What the Flux?

This Quantum Vacuum is more aptly named the unmanifest Plenum, whose vast energy density some consider the source of sentient Being. The dynamic discovered to be the very substance of the Plenum of space is light itself, the spectrum of fluctuating electromagnetism called the Zero Point Energy (ZPE). The "Quantum Vacuum" points to the fact that it is not a vacuum - an emptiness pure and simple, but rather is saturated with vibrant potential energy and is in fact a highly energetic medium, an absolute fullness of potential energy, the dynamic modification of which actually "emanates" what we call mass, matter or material form.

The flow of mass, and our own mass, through time is generated by the ubiquitous interaction of photons with the mass. This is so for both virtual and observable photons. Mass moves through time by integrating virtual photons, and absorption/emission of observable photons/biophotons. The internal dynamic flow of time has infolded sublevels and engines that pump up the quantum field effects to breach the mystic threshold of observability.

The infolded nature of unconditioned space itself, the vacuum potential with its Zero Point Energy (ZPE) is the root metaphor of the 21st Century. ZPE fields radiate from the center of origin of all physical forms, beginning with the smallest sub-quantum particle and extending to the largest galaxy, as well as each human being. All such fields are also electrodynamic in nature.

Consequently, all structural, memory and mental information is carried as holographically encoded wave interference patterns on the surface of such fields. They are transmitted through descending hyperspace field phase orders to their common zero-point center of consciousness by phase conjugate adaptive resonance processes.

Jung may have intuitively foreseen as much when he called the gnostic void a Plenum of infinite potential. Subquantum ZPE fields surrounding the spin (angular) momentum causes quantum particles to oscillate in and out of the ZP foam at their positive and negative phase of their standing waves or solitons. Such waves have resonant fractal harmonics that extend all the way through the compacted hyperspace fields in the quantum foam down to the zero-point spinergy, as well as outward to the furthest extent of the spacetime continuum.

All fields are in constant oscillation between spacetime and the zero-point at their natural frequencies between zero and infinite. Energy fields are continuously expanding and contracting through their zero point singularity on every spiral vortex spin cycle of their individual radiant particle-standing waves. This accounts for the entanglement (or action at a distance) of split particles along any ray path, as well as the entanglement of consciousness.

The universal center is everywhere and its circumference nowhere. The cosmos and every manifest form within it is a hologram, composed of infinite holograms within each other, ad infinitum, with all the structural information of the whole and all its parts (forms in each fractal involved harmonic field in total cosmic spacetime) existing at every zero-point singularity at their centers of origin — with all such fields interconnected (on the informational level) by

phase conjugate adaptive resonance. Since these ZPE fields are everywhere (in the Plack vacuum) and their ultimate extension, infinite — they interpenetrate each other in the vast sea of pulsating cosmic spacetime. Together, they constitute the basis of our holographic universe.

The universe is composed of an infinite number of frequencies. Some are macroscopically large and some microscopically small. All exist in uncountable phase relationships with one another. The colors of light, the sound of music, the smell of flowers, the touch of velvet, all are made of combined frequencies. Some are in phase and adding to, some are out of phase and cancel from, a multitude of vibrations. Our five senses are capable of interpreting these particular waves and making them tangible to our perception. It takes subtle sensing to perceive the archetypes behind phenomena.

We are each 'called' to express the inexhaustible richness of the collective unconscious, each in our own individual way, with certain themes selected through our predilections and our consciousness of it -- a novel creative synthesis. That is co-creativity. Deep within comes this holy source-level urge to co-create in novel ways that makes each of us irreplaceably unique.

### **Light in the Darkness**

Often long before scientific discoveries and explanations, we have intuitive precursors, ideas rooted in symbols, which indicate the content remains just beyond the threshold of conscious understanding. The pseudoscience, metaphysics, and superstition of human history and culture is in this category, and examples are numerous. We live in an era when so much of what was formerly hidden is being revealed by drawing back Nature's veil. We've peered back into the Creation to our inception. We find that light is a measure of mass not velocity.

We've discovered the deep time of the Cosmos, the developmental history of our planet, and our entire species. We've learned that without radical cultural transformation, our species may be doomed. Our mandate, therefore, is to look deeply within ourselves, fearlessly, to find the next new way on, not by relying on or retrieving the atavistic past, but by extending our potential for living in new, emergent ways that light our future. The photonic field is a harmonic of the negentropy attractor.

New discoveries are changing the face of science and impact cultural dynamics. One of our greatest challenges is the move toward altering and augmenting our genetics and bodies with technology. It is already rewiring our brains in unknown ways when we haven't as yet become "fully human". Avatars, designer bodies and immersive realities highlight just how plastic our ideas of being have become. Yet, the archetypes remain as eternal patterns playing out through the "nows" of our lives.

What was formerly limited to the psychological domain is being experimentally demonstrated by physics. As I write this today (Nov. 17, 2011) *Forbes* runs a story, which I include to demonstrate its immediate relevance to our quest and to Jung's notion of scintillating light in the darkness beyond the threshold of the unconscious: "Physicists Create Light from Nothingness". In the beginning, the vacuum was without form, and void. Then the physicists said, 'Let there be



light!', and nothing happened. Then the physicists built a superconducting quantum interference device. And then there was light. (Forbes)

In quantum physics, the vast emptiness of space isn't actually that empty. In fact, what we think of as a "vacuum" is actually teeming with virtual particles – particles that flit in and out of existence constantly, existing for only tiny periods of time before they go back to nothingness.

This constant cycle of creation and destruction is the consequence of the mathematics of quantum mechanics and the Heisenberg Uncertainty Principle, and creates what is known as vacuum energy – a background energy that exists throughout space, even when there is no matter present. Its existence has been indirectly observed through experimentation, such as those which demonstrate the Lamb shift – a slight fluctuation of the energy of electrons in a hydrogen atom.

Over forty years ago, physicist Gerald Moore predicted that if you were able to spin a mirror at speeds close to the speed of light, then the mirror would convert virtual photons into actual photons (the particles that make up light and other electromagnetic radiation). Unfortunately, it's close to physically impossible to spin a mirror at near-relativistic speeds, and so this effect had not been observed.

Until now, that is. In a paper published in *Nature*, a team of physicists has demonstrated the creation of photons from vacuum fluctuations. To do this, they constructed a superconducting circuit, which they've dubbed the superconducting quantum interference device, or SQUID for short. SQUID is a superconductor that's capable of oscillating at extraordinarily high frequencies – over 11 GHz. The SQUID is designed to effectively act as a mirror in order to replicate the theorized experiment.

Once the SQUID was ready, the team then passed a magnetic field through it, causing it to rotate at a speed of about five percent of the speed of light – fast enough to see the predicted results. And those results were obtained. After rotating the SQUID at those high speeds, the team were able to detect several real photons that were essentially created from nothing. These were the virtual transformed to the real. The photons that were created weren't actually visible to humans – they were in the microwave range of the EM spectrum. However, there is a possibility that a similar technique could be used to create actual visible light.

## **Seeds of Light**

Everything is made of Light. Only light matters. Nothing arises but standing waves from the seething zero-point field created by cosmic beings like ourselves. How we do so is a mystery to ourselves. But we are getting closer to non-religious descriptions of reality that curiously have profound mystical overtones.

The properties of mass, inertia, charge and gravity -- and those who observe them -- are the result of space resonances produced by zero-point scalar waves. At zero-point, waves pass through waves without interference. We come from, are sustained by, and are returning to the radiant light of our mass. All electromagnetic force is mediated by virtual photons.

The generally accepted theory of light up until the mid 1800's, was Newton's assertion of light to be a stream of tiny particles. However, in the late 1800's, the particle picture was replaced by the wave theory of light due to the phenomena associated with light: refraction, diffraction and interference, which could only be explained using the wave picture.

This electromagnetic radiation, or light, may be viewed in one of two complementary ways: as a wave in an abstract electromagnetic field or as a stream of massless particles called photons. This is known as the wave-particle duality and is true for all particles. This duality is the basis of a indisputable quantum law in which it is a thread that runs throughout the micro and macrocosm.

Light as a wave, has a wavelength associated with it, much like an ocean wave with crests and troughs. The frequency of light is measured by counting the number of waves passing one point at a given time. The energy is merely the strength or force the wave carries.

Since all things have an energetic duality we can convert and apply this to the DNA and RNA molecules which they in fact emit their own light/energy. Science shows this and mystics spanning many beliefs and philosophies throughout history speak of this wisdom in terms of The Language of Light.

The root of the soul is characterized as a sacred spark or central source of individual light/energy that helps regulate human consciousness and connects and unites human consciousness with universal mind. It connects human consciousness to the universe through its deeper subconsciousness component -- soul, our deepest nature and essence.

A background sea of [virtual or "dark"] light is the zero-point field of the quantum vacuum. The solid, stable world of matter is sustained every scintillating instant by this underlying sea of quantum light. The primordial infrastructure of existence is light. Holograms are a manifestation of the properties of light, the production and transmission of light, and the interaction of light with itself.

Considering the primordial nature of the psyche, Jung reflected on the 'seeds of light broadcast in the chaos' (Khunrath) , of the 'scintillae' (Dorn), soul sparks (Eckhart), of fish-eyes at the bottom of the sea, or images of luminous serpent eyes. He spoke of the virtual light of such luminous nodal points emerging from the abyssal depths, eventually including dynamical processes and all types of universally recurring patterns of behavior in the psyche. Jung did not begin to use the term archetype until 1919. At first he interchanged it with 'primordial image' and 'dominant'.

Preconscious archetypes are formative principles and structural elements, as well as typical modes of apprehension and action. Frey-Rohn characterized them as, "...not only the focal point of ancient pathways but also the center from which new creative endeavors emanated. "The archetypes, then being inherent in the life process, represented forces and tendencies which not only repeated experiences but also formed creative centers of numinous effect."

The numinous arises from the autonomous level of the psyche. The experience of the numinous also lies at the heart of Jungian therapeutic practice. Without it no transformation takes place. Jung (1973) asserts, "But the fact is that the approach to the numinous is the real therapy and inasmuch as you attain to the numinous experiences you are released from the curse of pathology" (p. 377). (Jacobi)

Archetypal images designate patterns, typical basic forms, prefigurative determinants, and the tendency to repeat the same psychic experiences. They conceal the unborn eternal archetype (unconscious nucleus of meaning) while they reveal particularized meaning and form. Such 'oculi piscium' (fishes eyes)" are fiery soulsparks of the World-Soul, the light of nature, divine sparks of the spirit.

Paracelsus perceived scintilla or sparks of this new light, calling it the Lumen Naturae. We might liken them to a quanta of the pleroma or void - a glimmer of the divine within. Holographically, each level of emanated creation contains within it a "spark" or "scintilla" of the divine, making it "like" the divine.

Jung termed the nondual "Pleroma," where nothingness is the same as fullness"...an Absolute in which there is no division between subject and object. Jung intuited this nondual Pleroma to be a collective transpersonal reservoir, an ocean of collective unconscious. From this omnipotent universal Pleroma our individual psyches coalesce around "attractor archetypes." In this sense Jung echoed the axiom: "Emptiness is Form, Form is Emptiness."

The spark, or scintilla, which is placed in the human soul, represents the possibility of the psyche's reunification with the unconscious -- unification of a conscious, individuated personality with the full range of oppositions and archetypes in the unconscious mind. "Our aim," Jung tells us, "is to create a wider personality whose center of gravity does not necessarily coincide with the ego," but rather "in the hypothetical point between conscious and unconscious" (Jung, 1929/1968, p. 45).

It harks back to a deep connection to the fundamental rhythm of nature, to the death and rebirth of divine nature, and to the wonder of our own being which partakes of the same energy. Correspondingly, in the Western mandala, the scintilla or soul-spark, the innermost divine essence of man, is characterized by symbols which can just as well express a God-image unfolding in the world, in nature, and in man. (CG Jung:1972:p 5)

This 'solar' aspect of the Self is the centrum, the indwelling scintilla animae. Shekhinah descends to raise up the collective lights of the whole created world. Jung called this light the lumen naturae which illuminates consciousness, the light of the darkness itself. Consciousness has always been described in terms derived from the behavior of light, so Jung assumed that these multiple luminosities correspond to tiny conscious phenomena.

Jung interpreted this imagery as symbolizing the emergence of consciousness. Jung noted, "Alchemy too has its doctrine of the Scintilla, the little soul-spark. In the first place it is the fiery

center of the earth. For all things have their origin in this source." At the common root, matter, energy, light and consciousness share a metaphysical essence -- information.

Light does not always behave like a continuous wave. It is grainy because energy can be transferred only in quantum packages. Therefore, light has a dual character. Under certain circumstances, it displays wavelike aspects. In other circumstances, it may have the characteristics of particles. Referring to quantum theory, Bohm's basic assumption is that "elementary particles are actually systems of extremely complicated internal structure, acting essentially as amplifiers of \*information\* contained in a quantum wave."

Light is a form of transition from three-dimensional space, the aether, to the space with four dimensions. All forms of energy originate as light. We're beginning to understand what nature has been hiding beneath her mystic veil of non-observability. The zero-point field is a blinding light.

Since it is everywhere, inside and outside of us, permeating every atom in our bodies, we are effectively blind to virtual photon flux. It blinds us by its presence. The world of light that we do see is all the rest of the light that is over and above the zero-point field. We cannot eliminate the zero-point field from our eyes. The vacuum remains the simplest state of nature. Life takes refuge in a single space - absolute space - the luminous core of meaning itself.

Metaphysical space is the unconscious. Each form that is in each human mind is, in some sense, an archetype -- some more common than others. A self-replicating archetype that is kindled from the collective unconscious is kindled through a mechanism of unconscious levels of tuning.

Repetition pushes the human psyche toward a bifurcation. Psyche has the possibility of using repetition as a chaotic attractor. The progressive is suddenly punctuated by what is novel, and thrown into chaos. Archetypes also shape collective consciousness. They are coherent, complex, intelligible patterns of meaning and improvisational creativity, shaped by the multilevel unconscious tuning, caused by an unresolved conflict in the deeper unconscious layers. The Philosopher's Stone equates with Jung's notion of the mandala as a unifying symbol and the elusive Unified Field of physics.

Meaning is not an entity, not a creed, a doctrine, a worldview, also not something like the fairytale treasure hard to attain. It is not semantic, not a content. Meaning, where it indeed exists, is first of all an implicit or a priori fact of existence. It can never be the answer to a question. It is, conversely, an unquestioned and unquestionable certainty that predates any possible questioning. It is the groundedness of existence, a sense of embeddedness in life, of containment in the world.

Creativity is the principle of novelty. Unity with cosmos and the groundstate of Being reveals what IS. Everything pulses with the same luminosity - a magnificent light of unparalleled brilliance. The "holographic experience" is one of being simultaneously cosmos and individual self. Archetypes act as the fundamental dynamical patterns characterizing all processes, whether mental or physical.

The luminous consciousness of the worked on soul arises, self-existing unlimited awareness, or self-existing awareness, unlimited, unconditioned, unborn. –

- luminescent nature
- luminescent natural awareness
- luminous vision

The holographic paradigm suggests the brain is like a television receiver and we're receiving things through it. If something happens to the receiver your image is going to get blurred. But it won't hurt the program. Anyone with a good set can still receive it, as you could if you got a new television set. So the real you (the operator who is using the neurons in the brain to come through) is like a television program and the body is like a set that receives it, and has static (noise), a refresh rate, and coherent signals of varying resolution. Our DNA functions as a projector of the quantum biohologram, our existential blueprint.

Mind is emergent sparkling awareness, an existential hologram interpreting a holographic universe. Twinkle is evidence of the "filling in" process. The luminosity is the radiance of our own minds. Archetypes' numinous luminosity attracts and holds us like a gravity well. Archetypes function like strange attractors. Not archetypal in strictly the same sense as used by Jung; the term refers to principles so primordial that they underlie the fundamental shaping of all structures. Attractors bring coherence to various signs and symbols. Symbols themselves -- words, pictures -- point to the deeper structure of things, including the deeper structure of time.

Numinous experience is the urgent emergence of Mystery. Light is the archetype of the revelation of ultimate reality. This source effect is the root of the religious drive. Due to religious undertow, mankind never ceases trying to personalize the awe-inspiring and fascinating numinous element. Jung called the "numinous element" the collective unconscious and Clear Light of the Void. The numinous experience can lead to belief in deities, the supernatural, the sacred, the holy, and/or the transcendent. But it is a phenomenon, not contact with a "separate" "divinity", per se.

Activated archetypes are often compensatory in nature, and associated with trance, art, and creativity. Trance (awe and dread of the uncanny) is a dissociative way of escape; art is a way of personal expression; creativity brings cognition, universality, and compassion into the process. There is above the celestial fire an incorruptible flame, always sparkling; the spring of life, the fountain of all being.

## **Holographic Hyperchannel**

In 1994, the Gariaev (Garyaev) group proposed a theory of the Wave-based Genome where the DNA-wave functions as a Biocomputer. They suggest (1) that there are genetic "texts", similar to natural context-dependent texts in human language; (2) that the chromosome apparatus acts simultaneously both as a source and receiver of these genetic texts, respectively decoding and encoding them; (3) that the chromosome continuum acts like a dynamical holographic grating, which displays or transduces weak laser light and solitonic electro-acoustic fields.

The distribution of the character frequency in genetic texts is fractal, so the nucleotides of DNA molecules are able to form holographic pre-images of biostructures. This process of "reading and writing" the very matter of our being manifests from the genome's associative holographic memory in conjunction with its quantum nonlocality. Rapid transmission of genetic information and gene-expression unite the organism as holistic entity embedded in the larger Whole. The system works as a biocomputer -- a wave biocomputer.

Are there holographic hyperchannels? Information in a field is holographic and the propagation of holographic interference patterns is quasi-instantaneous. Every part of the field contains the whole informational content, just in lower resolution. "Each particle of mass in our bodies represents one closure of the entire universe yielding a holographic reality and deeper communication with ourselves is identical to communication with the universe, including any part of it, at any distance. Furthermore, in hyperspace the future and the past are all present.

Leon Maurer proposed a model he called Astro Biological Coenergetics. ABC is a scientifically philosophical holographic, fractal involved field theory of cosmogenesis, mind, memory, information and consciousness—based on the fundamental propositions that subjective consciousness (awareness, will) is an a priori quality of the underlying, unconditioned absolute space—located everywhere in relative space-time. And that the entire cosmos is a hologram—with all structural information contained in every absolute zero-point "singularity" (infinite absolute space) at the origin of all fields and forms in finite relative spacetime... Where all such fields' fractal harmonics steps down octavally in frequency phase orders ranging between zero and infinite.

This theory further postulates that total relative gravitational/electrodynamic spacetime, including the higher orders of fractal involved cosmic hyperspacetime fields and all their mass/energy fields (em & gravitational radiation) and forms (particle-standing waves)—both in sub-quantum hyperspacetime and in our lowest frequency phase order physical/material quantum spacetime—are generated from the spin momentum (ZPE) of the "singularity" surrounding each proto-conscious zero-point of primal or absolute space located everywhere throughout total hyperspherical spacetime.

This holistic theoretical framework (physics, biology, philosophy) includes the idea that we are light-enabled technology, Photonic Humans. The mass of the physical body exists because there is some informational code of access to an unlimited source of energy mediated by Light. Light comes from the subspace holographic blueprint, a subtle field that allows the flux of virtual photons to spontaneously appear and disappear in the vacuum so quickly they cannot be individually observed.

All mass is interaction but in the vacuum waves pass through waves in superposition without interference. Virtual photons are literally clear light. The fundamental nature of the energy body is clear light.. Related photic phenomena are described using the informational, material and energetic characteristics of existence, plus the complexity and entropy characteristics of dynamic development. Technically, quantum fields have an infinite number of possible energy states, all of which should contribute virtual particles to the vacuum.

Holography stabilizes the vacuum energy. The foundations of fields overlap and reverberate in a holographic frequency domain. Matter is induced by resonant holographic resolution. In holography, three-dimensional illusion results from a dense network of interference patterns. These patterns reflect the wave character of light. A small piece of the hologram can be used to reconstruct the whole three-dimensional image, but the resolution can be fuzzy.

With selective tuning and kindling, any part of this holographic reality is accessible. However, because of the smallness of a single selective signal in the midst of the totality, the channel is quite noisy. Are standing waves picked up and carried by the Schumann Resonance, or transmitted by scalar waves or a gradient in the vacuum potential? Are brains entrained on a resonant frequency?

Does DNA function as a multi-mode antenna regulating growth, evolution, and perhaps psi? Mind is a dynamic function of the entire organism at all levels of self-organization. Constantly fluctuating local parameters are embodied and amplified through the body's electromagnetic control hologram. Mind/body modulates our sensitivity to external and internal information.

The organization of any biological system is established by a complex electrodynamic field which is, in part, determined by its subquantal components. This field, in turn, determines the behavior and orientation of psychophysical being. DNA is our antenna. This dynamic is mediated initially through wave-based genomes where DNA functions as the holographic projector of the psychophysical system, a quantum biohologram. Supersymmetry points to a deep link between the quantum realm of particle physics and the quasi-classical realm of protein assembly.

Science now understands no objectivity is possible because of uncertainty, indeterminacy. Absolute space beyond the subatomic threshold of dynamic vacuum fluctuation is unobservable or measurable, and therefore metaphysical, beyond physics. Infinite energy density pervades the whole universe.

The emergent paradigm of self-organization permits the elaboration of a vision based on the interconnectedness of natural dynamics at all levels of evolving micro- and macrosystems. A new sense of meaning springs from such interconnectedness of the human world with overall evolution. It is leading us toward complex quantum biology and quantum medicine.

This theoretical framework includes the idea that we are light-enabled technology. The mass of the physical body exists because there is some informational code of access to an unlimited source of energy mediated by Light (subspace). Related photic phenomena are informational, material and energetic characteristics of existence, plus the complexity (chaos theory) and entropy characteristics of dynamic development.

Paradigms serve important integrative psychological and social functions. They help us read the sacred pages in the Book of Nature. The previous page of pre-scientific wisdom traditions explored the same territory with spiritual technologies. Virtual photons and photons are the key

to biology. Photons bridge the gap between physics, biology and philosophy. Such sparks of virtual light are the glimmerings of consciousness itself.

## DISCUSSION

### Archetypes, Holoarchy & Meta-Genetics

We suggest extending Jung's argument. Self-organizing holographic archetypes, excited manifolds in the psychoid field, exert both top-down and bottom-up control of phenomenology. There are as many approaches to archetypes and phenomenology as there are people. We intensify our efforts when we find what doesn't fit.

Old definitions, speculation on heritability, static snapshots, extracted symbols, stereotypes, qualitative correspondences, and galleries of gods and goddesses fall short of full descriptions of nonlinear dynamic process. As ever, the map is not the territory. "Mental illness" is only a medical model of the archetypes. Philosophical, theoretical, and spiritual assumptions are colored by archetypes. We are all touched by archetypes. The only question is how much of our lives is consumed by them.

We may readily see that language, number, geometry, grammar, and DNA are basic patterning forces of human life and culture. But we have new archetypes, aka Old Wine In New Bottles, to deal with in the 21st Century, some disguised as trends or memes, such as holography, "Ascension", conspiracy, quantum mind, "Occupy", catastrophe, sustainability, global warming, NWO, "transcendent man," and other tropes of our current era alongside the old -- Ouroboros, apocalypse, changing Ages, plutocracy, death/rebirth, Great Goddess. We can identify whole clusters of the old gods and goddesses moving through such new forms: Hermes, Gaia, Zeus, and the rest of our usual suspects. But we need to enlarge our capacity to think in terms broader than these old forms.

An over-arching theme is the Android Meme: "...the ability of human-invented technology...to acquire the intimacy of speech and intuition." (Dobbs) In other words, the Android Meme is technology that has the qualities of "being alive". The Android Meme joins with us in an unholy alliance of archetypal technology and human organism, as a cacophony of all media, all technology and all ideas of particular times, anthropomorphized, trying to make itself human.

Since Jung's era, the public has become passingly familiar with the terms of quantum physics, the fractals of chaos theory, and the holographic paradigm. Science is formulated with metaphor as well as models. Any small piece of imaginal material may contain the total configuration, both past and future. It is the resonance or expansion and re-expansion of this awareness over time that leads to change rather than particularized insight itself. Insight does not result from learning but results from a subsequent phenomenological shift in the holographic template called insight.

Insight results from expansion and overload rather than from a specific, focused understanding. Within the process model, the total patterns of experiencing within the organismic whole which



have remained unattended became the holographic blur. In other words, this part of the unconscious is not regarded as a preexisting form. When we are presented with a sensation, feeling, thought or intuition, it takes millions of cooperating brain cells, orchestrating together, for these perceptions to reach consciousness. Approximately 97% of what happens in our so-called "consciousness" remains unconscious.

Although subjectivity is present at the level of photons, it requires brain systems to generate ordered patterns that are the basis of actual conscious experience. Drive manifestations in thought, repressed memories, archetypal themes, and so on are particularized meanings, cognitively derived from the holographic "frequency domain"-- the stage of transforming sensory data across the entire brain.

Mark Germaine describes the Holographic Principle:

*"Layers of the holographic, universal "now" go from the inception of the universe to the present. Universal Consciousness is the timeless source of actuality and mentality. Information is experience, and the expansion of the "now" leads to higher and higher orders of experience in the Universe, with various levels of consciousness emerging from experience. The brain consists of a nested hierarchy of surfaces which range from the most elementary field through the neuron, neural group, and the whole brain. Evidence from the evolution and structure of the brain shows that optimal surface areas in a variety of structures are conserved with respect to underlying surfaces. Microgenesis, the becoming of the mental state through a process of recapitulation of development and evolution, is in full accord with the Holographic Principle. Evidence from a wide variety of contexts indicates the capacity of the mind for total recall of past life events and for access to universal information, indicating connection with the holographic surfaces of prior "nows" and with the Universal holographic boundary. In summation, the Holographic Principle can help us explain the unity and mechanisms of perception, experience, memory, and consciousness."*

He also notes, *"There have been a number of propositions regarding the relationship of consciousness and time. Sigmund Freud held that the unconscious is timeless, and that time only arises in consciousness. Carl Jung, with the apparent endorsement of Wolfgang Pauli, held that there is a collective unconscious, composed of archetypes, which are timeless, and also worked with Pauli on his theory of synchronicity, or meaningful experiences outside of normal causality. What Freud and Jung would call timeless, we call temporally non-local. We have also hardly touched open the role of dynamical systems or chaos theory, with the brain state fundamentally evolving under the conditions of self-organized criticality."*

Laszlo (2004) contends, *"The universe is a system of holographic surfaces within surfaces, or what we may call a nested hierarchy of surfaces, with each surface containing its own "world" of information. The most basic order of information is the fundamental quantum of spatial volume, the Planck space, which has a variable energy, called the vacuum energy. In 1930 Dirac developed a model of the vacuum as an infinite sea of particles having negative energy, which was dubbed the Dirac sea. There is a fundamental relationship between the Holographic Principle and the vacuum energy (Mongan, 2007), which can account for a variety of non-local phenomena."*

Because the frequency domain deals with the density of events, time and space are collapsed in it. Not until these mathematical transforms are reversed does the object or image reappear as concrete, three-dimensional reality "out there." In the frequency domain itself there is no out there (Pribram, 1982).

Pribram's "frequency domain" is Bohm's "implicate order" while the image domain is "explicate order." Countless enfolding and unfoldings between orders is the Bohm's holomovement. The transformative process may be holographic. Chaos only appears as such because the underlying order is of such indefinitely high degree. It is meaningless to view the universe as arbitrary parts.

Many understand that it relates to consciousness, synchronicity, and their holistic experience of reality. Synchronicity is the experience of two or more events, unlikely to occur together by chance, being observed to occur together in a meaningful manner. It represents the meaningful unfoldment of potential. We are wrapping our minds around paradoxical notions such as multiverse, non-locality, superposition, coherence, entanglement, and torsion fields. Non-locality is the quantum phenomenon of instantaneous action at a distance in spacetime.

Sometimes our mental representations are dominated by form, especially that initiated by past experiences. Other times, consciousness is dominated more by formlessness, uncommitted attention, receptivity to new ideas. Between frames, or states of consciousness are transitive or "empty" moments in which vague, unformulated experience occurs.

The metaphor is superseded by the holographic blur of a possibility of form -- form overcome by formlessness -- finally free from groping around using inadequate analogies. Simulations can run through the past and future, trying different scenarios and responding in advance to probable future environments.

## **In Synch**

Jung believed that synchronicity phenomena underlie his hypothesis of "collective unconscious", with "archetypes". Synchronicity cannot be considered in isolation from the nonlocal structure of "collective unconscious". The phenomena of coincidence or synchronicity are modulated by archetypes.

Influenced by Jung's concept of synchronicity, Arthur Koestler wrote *The Roots of Coincidence* (1972), an accessible introduction to theories of parapsychology, including extra-sensory perception and psychokinesis. It postulates links between elements of quantum mechanics, including the behavior of neutrinos and their interaction with time, and these paranormal phenomena. It is influenced by Carl Jung's concept of synchronicity.

Peat calls synchronicity a bridge between matter and mind. Living by synchronicity -- paradoxical but seemingly meaningful coincidences -- isn't just about getting messages or reading 'signs'. It is about immersion in the flow state, being at one with the cosmos. It is about nurturing the poetic consciousness that allows us to taste and touch what rhymes and resonates in the world we inhabit.

Harmonizing and balancing the inner world of spirit and mind is achieved through archetypes and their symbols and images. Chaotic periods punctuate creative periods. The dynamic is from external to internal world as meaning unfolds. Through opening ourselves, we learn how the world-behind-the-world reveals itself by fluttering the veils of our consensual reality. We learn how to live with one foot rooted in the inner and outer symbolic world, revealing the transcendence hidden in a particular life.

Even a partial understanding of the neurological substrate of the archetypes will improve our understanding of them. Archetypes aren't limited to myth, dream, paranormal puzzles, and the hermeneutic interpretations of the consulting room. Archetypes transcend the individual psyche, permeating our experience. Jung called the non-psychic aspect of the archetype 'psychoid', forming a bridge to matter in general, extending beyond a neurophysiological basis into the general dynamical patterns of all matter and energy.

Archetypal pre-conditions describe the transcendent, unitary existence that underlies the duality of the mind (psyche) and matter (physis). They impact all situations, experiences, and images. When we are gripped by archetypal images and experiences, our conscious life and attitudes are swept away by pre-subjective schemas. Beyond judgment, such autonomous appetites demand to be fed. The experiential spectrum ranges from unconscious identification to feeling overwhelmed by it. Complexes behave like independent beings, subpersonalities with their own qualitative agenda with new and hidden meanings. Ego is punctuated by archetypal interference, repression and suppression.

Meta-genetics is a separate field at the very heart of genetics -- the study of how inheritance itself evolves, even while it mediates all evolution. It attempts to interpret or explain the organization, structure and dynamics of genetic material -- the master program of the archetypal creative "programmer". The meta-genetic program is the inherent intelligence of the life-force itself. Meta-genetics encompasses a group of related fields including quantum bioholography, genetic linguistics, and wave-genetics. Whether or not genetics is evolving, our view certainly is. The discovery of gene-expression transcends the nature/nurture dichotomy.

DNA is the replicable archetype of our species. Archetypes have both neurological and environmental correlates. Genes, templates, enzymes, catalysts, hormones and pheromones have 'archetypal' qualities. Archetypes are probably somatically based in the right cerebral hemisphere, which is visual-spatial. The tripartate brain and limbic system suggest more primitive archetypes reside in the drives and structures of the "reptilian" brain.

Recent studies of empathy find a genetic base for the psychosocial response: scientists identified couples' gene types as GG, AG, or AA through tests. The first type marks people with two copies of a gene variant called G; the second, those with one copy of the G and one copy of the A variant; and so forth. According to previous research, GG people tend to act in a more caring way, whereas the other two types tend to have a higher risk of autism and self-reported lower levels of positive emotions, empathy and parental sensitivity.

Oxytocin is linked with social affiliation and reduction in stress, social recognition, pair bonding,

dampening negative emotional responses, trust and love. GG carriers rate highest for trustworthiness. Carriers of the A version of the gene were viewed as less kind, trustworthy and caring toward their partners. What's unknown is precisely how the gene affects the behavior. The variant does lead to differences in receptors, or molecular structures, involved in oxytocin transmission. But people can and do overcome their genes to some extent. (Oregon State University)

Due to the nature of the limbic system, you cannot will your feelings, emotions, falling in love, or staying in love, anymore than you can will your heart to beat, or yourself to digest a meal or sleep. Archetypes correlate with simultaneous activation and deactivation of discrete parts of the limbic system. For every biological event in your body, there is a biological cause. In this case, the cause is neurochemicals—and the pathways they turn on and off.

The genetic code operates by epigenetics, turning certain genes on or off. According to meta-genetics, potential DNA is anything but “junk.” Potential DNA plays the primary role of interfacing “ener-genetically” with our bioenergy blueprint in the consciousness field. In this way, potential DNA regulates cellular expression -- and even the origin and evolution of species -- in a manner that genetics cannot begin to account for and epigenetics cannot come close to matching. If the genome is the hardware, epigenetics is the software of genetic expression, telling it when to work, how to work and how much. The epigenome tells cells what kind of cells to be, whereas archetypes are primordial reaction formations.

While some epigenetic changes are heritable through the germ line, many are not and necessarily so. You wouldn't want the epigenome of a heart cell or kidney cell or, more relevantly, a gonad cell to find its way unchanged into the fertilized egg. The slate upon which all the developmental processes of the adult have been written needs to be wiped clean in order to clear a space for the next generation. Relatively clean heritable epigenetic marks are somehow preserved. As part of this slate-cleaning, a wave of demethylation passes along each chromosome shortly after fertilization and is completed by the time of implantation in the uterus. Immediately following this, a new methylation occurs, appropriate for the embryo and giving it a fresh epigenetic start.

In explaining the role potential DNA plays in the origin and evolution of species, meta-genetics reveals that genetics and epigenetics alike control our lives only relatively, compared to the underlying spiritual energy that engenders, supports and develops life: consciousness. Potential DNA's ongoing dialogue with the consciousness field allows for a constant, simultaneous exchange of information, in the form of sound and light waves, between time-space and space-time, while bypassing any so-called tight restrictions on the flow of genetic information.

Potential DNA, far from being inactive, constitutes the hyperdimensional interface between the sound and light domains. The genetic sound-light translation mechanism indicates the process by which chromosomes assemble themselves into different configurations designed to “translate” standing waves of sound into light (and vice versa). The existence of the genetic sound-light translation mechanism indicates that the flow of information, or conscious bioenergy, through DNA is a two-way street. Light becomes sound, and sound becomes light.

Though other alternative models will naturally arise, by choosing a scope of analysis and

approaching cognitive dynamics and characteristics on their own terms we can actually get something done. We have to wrap our minds around the notion that our "living region" is indissolubly welded to the vastness of unknowable reality. Jung suggested as much in the language of his day in his concept of the Collective Unconscious and its archetypal dynamics, which he constantly sought to update. Nearly a century later, we should consider doing the same.

It can be useful to relinquish or recontextualize old reality assertions. A 21st Century inquiry into reality explodes the normative of space, time and matter, and thus destroys the context in which something like an evolutionary narrative makes sense to us. Yet, by choice or by wearing intentional blinders, the evolutionary narrative continues to inform very useful analyses of our condition. That is also a useful point in consciousness studies (since there is actually no other alternative) . We have to construct and build upon useful analyses of consciousness, and not divert ourselves with unverifiable speculations about the true nature of all of reality.

Our notions of 'consciousness' exist independent of that reality, which is the lens through which we encounter our experiences. Cognition, itself is a holographic archetype. So are language and natural numbers. Many essential qualities of the whole are reflected or contained in each of the parts that make up that whole.

Whatever else it may be, the holographic domain is also a subtle yet dynamic net of preferential metaphors, analogies and similes which characterize our experience of our experiences. Just as we are not constrained by retrievals of our ancestors beliefs, rituals, superstitions and faulty theories, we are not constrained from rewriting psychological theory from best practices to clear a Golden Path to our future.

## **Resonant Filters**

Holographic archetypes effectively echo their nested-structure and resonant patterns throughout the field as phenomenological, biophysical, literal and symbolic "reflectaphors" -- fractal expressions, fractal scaling, and reiterations of psychic life. Archetypal morphogenetic fields (or attractors) emerge harmonically within nested domains. The interweaving transient forms of the holographic archetype include the hologram, psychic structure, wave-genetics, and synchronicity.

We can and must recontextualize Jung's intuitive notion of archetypes in terms of today's science, pursuing his dream of a unified language that unites psyche and matter. Psyche and Cosmos is a unified matrix of being, pregnant with intelligence and intimately coextensive with human affairs. The life-wave is best understood as a potentially infinite series of waves. The ocean in our analogy is the "torsion," Source Field or hyperdimensional sound domain of time-space, where individual waves act as sonic carrier waves for the genetic blueprints of past, present and future species.

Archetypes are more than just metaphors of chaos theory, holographic strange attractors, and dark energy -- they are the eternal sources of such notions and perceptions. It's as if these supersensible realities are enfolded potentials in the scalar field of the virtual vacuum, awaiting

their synchronistic moment of unfolding. Holographic Strange Attractors are also fractal, looking like patterns we recognize but without clear boundaries and never quite repeating themselves at various scales and domains. They allow unpredictable change while providing structure.

## Remodeling Process

Jung's collective unconscious consists of archetypal infolded EM structures acting in common in an overall bio-quantum-potential for the entire species. Gaia, the living earth/biosphere, really does scientifically exist as a common bio-quantum-potential with infolded living EM structures for the entire earth biosphere. The bio-potential in a single body is an overall quantum potential that links and joins all the atoms and cells of the body.

The "spirit" of the biosystem is its "living biopotential" - its living quantum potential. We already know that a potential is everywhere nonzero all the way out to infinity. So the spirit of the living system is - in the virtual state - everywhere in the universe - and everywhen as well. It's all a giant hologram, not only in space, but in spacetime. The entire universe is everywhere alive, with everything. (Bearden) The body's master cellular control system is holographic—the pattern (substructured potential with its dynamic, oscillating components) is in each component (each atomic nucleus, hence in each cell.) Every structural level of the body larger than the cell also has its own correlated pattern, or modulation, on the overall.

Arthur Koestler called holarchy a connection between holons – as both a part and a whole, across scales and domains. The universe as a whole is an example of a holarchical system, in which every holarchy is part of a larger holarchy. Holarchy is commonly considered a form of hierarchy, however, hierarchy implies both an absolute top and bottom. For a holon, this is not logically possible, as it is both a whole and a part. Like a fractal, the top can be a bottom, and a bottom can be a top. An advantage of the holarchy model is that it may be easily mapped to hierarchy of agents (or archetypes) in which an agent is composed of agents and may have its own ecological behavior as a partial consequence of these part's behaviors.

Functioning like "psychic DNA", archetypes are the holographic strange attractors organizing the psyche. The psychoid level of archetypes is analogous to the heritable DNA biohologram, whereas their expressive nature can be likened to epigenetics. Epigenetics is typically defined as the study of heritable changes in gene expression that are not due to changes in DNA sequence. Every cell in the body has the same genetic information. What makes cells, tissues and organs different is that different sets of genes are turned on or expressed.

Environmental factors and our choices alter the way genes and archetypes are expressed and characterize our being. Jung claimed that "the gods have become diseases." The field of epigenetics is now revealing a molecular basis for how heritable information other than DNA sequence can influence gene function, morphology, and plasticity. These advances also add to our understanding of transcriptional regulation, nuclear organization, development and disease.

Archetypes characterize and particularize perennial wisdom, language, images and ideas (theories), and emotion-laden complexes. Sometimes, such complex expression looks like

pathology or pathologizing but psyche is trying to tell its perennial story in particularized form. We exist in relation to ourselves, to others, to myths, to images, or to archetypes. Their expression is the essence of our being.

[Note: References are at end of Part II]